

**“COMPARATIVE STUDY OF TRICHOMONAS
VAGINALIS INFECTION IN SYMPTOMATIC AND
ASYMPTOMATIC FEMALE PATIENTS ATTENDING
STD OUTPATIENT DEPARTMENT DIAGNOSED BY
WET MOUNT AND CULTURE METHOD”**

**Dissertation Submitted in
fulfillment of the University regulations for**

**MD DEGREE IN
DERMATOLOGY, VENEREOLOGY AND LEPROSY
(BRANCH XX)**



**MADRAS MEDICAL COLLEGE
THE TAMILNADU DR.M.G.R.MEDICAL UNIVERSITY
CHENNAI**

APRIL 2013

CERTIFICATE

Certified that this dissertation titled “**COMPARATIVE STUDY OF TRICHOMONAS VAGINALIS INFECTION IN SYMPTOMATIC AND ASYMPTOMATIC FEMALE PATIENTS ATTENDING STD OUTPATIENT DEPARTMENT DIAGNOSED BY WET MOUNT AND CULTURE METHOD**” is a bonafide work done by **Dr.ANUPAMA.M.P**, Post graduate student of the Department of Dermatology, Venereology and Leprosy, Madras Medical College, Chennai – 3, during the academic year 2010 – 2013. This work has not previously formed the basis for the award of any degree.

Prof.Dr.MANGALA ADISESH, M.D,
Head of the Department,
Department of Serology,
Institute of Venereology,
Madras Medical College,
Chennai-3.

Prof.Dr.K.MANOCHARAN, M.D,DD.,
Head of the Department
Department of Dermatology
Madras Medical College
Chennai-3.

Prof. Dr.V.KANAGASABAI, M.D.,
Dean
Madras Medical College
Chennai-600003.

DECLARATION

I solemnly declare that the dissertation entitled **“COMPARATIVE STUDY OF TRICHOMONAS VAGINALIS INFECTION IN SYMPTOMATIC AND ASYMPTOMATIC FEMALE PATIENTS ATTENDING STD OUTPATIENT DEPARTMENT DIAGNOSED BY WET MOUNT AND CULTURE METHOD”** is a bonafide work done by me at Madras Medical College during 2010-2013 under the guidance and supervision of **Prof.Dr.V.SUDHA, MD, DV, DD.,** Director and Professor, Institute of Venereology and **Prof.Dr.MANGALA ADISESH, M.D,** Professor and Head of the department of Serology, Institute of Venereology, Madras Medical College, Chennai-600003.

This dissertation is submitted to The Tamil Nadu Dr.M.G.R.Medical University, Chennai towards partial fulfillment of the rules and regulations for the award of M.D Degree in Dermatology, Venereology and Leprology (BRANCH – XX).

DR.ANUPAMA.M.P

PLACE :
DATE :

SPECIAL ACKNOWLEDGEMENT

My sincere thanks to **Prof. Dr.V.KANAGASABAI, M.D.**, Dean, Madras Medical College for allowing me to do this dissertation and utilize the Institutional facilities.

ACKNOWLEDGEMENT

It was a great privilege and pride to carry out this study under esteemed guidance of **Prof.Dr.V.SUDHA, MD, DV, DD.**, Director and Professor, Institute of Venereology. I wish to express my sincere thanks and deep sense of gratitude for her guidance and unfailing help in every step of the study. I express my sincere and heartfelt gratitude to **Prof.Dr.K.MANOCHARAN, M.D.D.D**, Professor and Head of the Department, Department of Dermatology and Leprology for his guidance and support.

I express my sincere gratitude to **Dr.K.VENKATESWARAN M.D.D.V** Additional professor, Institute of venereology, for his invaluable guidance and support.

I sincerely thank **Dr.C.JANAKI, M.D., D.D.**, Additional Professor of Dermatology (Mycology) for her priceless support. I am grateful to **Dr.V.SAMPATH, M.D.**, Additional Professor, Department of Dermatology for his invaluable guidance and motivation. I express my sincere gratitude to **Dr.DHANALAKSHMI.U.R., MD,,DD.**, Additional Professor.Department of Dermatology.

I express my earnest gratitude to **Dr.S.NIRMALA, MD.DD.**, Professor and Head, Department of Occupational Dermatology and Contact Dermatitis for her constant motivation and guidance. I thank **Dr.R.PRIYAVATHANI ANNIE MALATHY, MD, DD, DNB.**,

Additional Professor, Department of Occupational Dermatology and Contact Dermatitis for her benevolent help and support.

I wish to thank **Dr.S.JAYAKUMAR, M.D., D.D.,** and **Dr.D.PRABHAVATHY, M.D., D.D.,** Former Professor, Department of Dermatology, **Prof.Dr.S.V.SOMASUNDARAM, MD.,** Former Professor, Department of Occupational Dermatology, **Dr.P.ELANGO VAN MD,DV.,** Former Additional Professor, Institute of Venereology, for their constant support and motivation.

I express my earnest gratitude to my Guide **Prof.Dr.MANGALA ADISESH M.D,** Head of the Dept of Serology, Institute of Venereology, for her constant support and guidance throughout and for allowing me to utilize laboratory facilities for my study purpose.

I humbly thank my Co-Guide **Dr.C.VIDHYA, M.D (DVL)** for her valuable guidance throughout my work.

I express my sincere gratitude to **Dr.THILAGAVATHY, M.D** Asst Professor. Department of Serology for her help and support.

I am inclined to thank, **Dr.P.MOHAN, M.D.,D.V,** **Dr.P.PRABHAKARAN. MD (DVL)** **Dr.K.UMAMAHESHWARI, MD (DVL),** **Dr.R.SOWMIYA, M.D(DVL)** and **Dr.RANGARAJAN, DTCD., DV** **Dr S.SANGEETHA, DR.R.SUBHA.M.D(DVL)** Assistant Professors, Department of Venereology, for their help and suggestions.

My sincere thanks go to **Dr.G.K.THARINI, M.D., Dr.J.MANJULA M.D, DNB. Dr.C.VIJAYABHASKAR, MD, Dch., Dr.S.J.DANIEL, MD(DVL), Dr. R.MADHU, MD, DCH.,** Assistant professors, Department of Dermatology for their kind support and encouragement.

I thank, **Dr.A.HAMEEDULLAH, M.D.D.D., Dr.S.KUMARAVEL, MD., DD., Dr.AFTHAB JAMEELA WAHAB MD,D.D., Dr.N.SARAVANAN, MD(DVL), DCH., DR.V.N.S.AHAMED SHERIFF M.D (DVL), DR.S.MADHAVI M.D (DVL)** Assistant Professors, Department of Occupational Dermatology and Contact Dermatitis for their support and help.

I am inclined to thank my former Assistant professors, Institute of Venereology, **Dr.S.Kalaivani, M.D.,D.V., Dr.S.Arunkumar M.D., D.V., and Dr.Thirunavukkarasu, MD.,D.V.,** for their kindness.

I duly acknowledge the paramedical staff Mrs Shanmuga priya Miss Kalaivani.Dept of serology, for their help throughout my study and my colleagues for their help and favors. Last but not the least I am profoundly grateful to all the patients for their co-operation and participation in this study.

Constraint of space may have led to few names gone missing in my acknowledgement. I wish to express sincere gratitude to all those

who have been associated with my study and have helped me in bringing this dissertation to the present form.

I would like to express my immense gratitude to the **Patients** and their families without their participation this study would not be happened.

Last but not least words are inadequate to express my gratitude to my **Parents** and my husband, **Dr.PRAVEEN KUMAR.A.S** for his unrelenting support, patience and friendly attitude enabled me to complete this work.

CONTENTS

| Sl. No. | CONTENTS | PAGE NO. |
|---------|-------------------------|----------|
| 1 | INTRODUCTION | 1 |
| 2 | REVIEW OF LITERATURE | 3 |
| 3 | AIMS AND OBJECTIVES | 30 |
| 4 | MATERIALS AND METHODS | 31 |
| 5 | OBSERVATIONS AND RESULT | 38 |
| 6 | DISCUSSION | 77 |
| 7 | SUMMARY | 88 |
| 8 | CONCLUSIONS | 91 |
| 9 | BIBLIOGRAPHY | |
| 10 | ANNEXURES | |
| | PROFORMA | |
| | CONSENT FORMS | |
| | ABBREVIATIONS | |
| | MASTER CHART | |
| | CODES FOR MASTER CHART | |

INTRODUCTION

Trichomoniasis also known as trich, is caused by pathogenic protozoan *Trichomonas vaginalis* (T.vaginalis), which is the most common non-viral sexually transmitted infection (STI).

Trichomoniasis accounts for more than half of all the curable sexually transmitted infections worldwide.^[1] It causes approximately 180 million infections worldwide annually. Many infected persons remain asymptomatic, when symptomatic, it presents with vaginitis, cervicitis, PID and infertility in women and non-Gonococcal urethritis in men. Women infected during pregnancy are predisposed to adverse pregnancy outcomes like premature rupture of membrane, premature labour and low birth weight infants.^[2]

Infection with *Trichomonas vaginalis* is a marker for high-risk sexual behaviour and high prevalence rates in many populations indicate the need for counselling and behavioural change to reduce patients risks for acquiring other STI and Human Immunodeficiency virus infection.^{[3][4]} Trichomoniasis increases the risk of transmission of HIV infection to 2 fold rise due to local inflammation and disruption of cervical epithelial barrier.

Coinfection with *T. vaginalis* and HIV results in “epidemiological synergy” with prolonged or augmented infectiousness of both the infections.^{[3][5]}

Trichomoniasis is highly prevalent in sexually active women ranging from 5% to 74% and in men prevalence is 5 % to 29%. About 10 to 50% of patients harbor Trichomonads without developing any symptoms that serves as major reservoir of infection.^[6]

In this background we planned to conduct a study to diagnose and compare *Trichomonas* infection in asymptomatic and symptomatic female patients attending STD outpatient department, using wet mount and culture as diagnostic methods.

HISTORY

Trichomonas vaginalis was first described in 1836 by a French physician Alfred Donne who observed the organism in fresh preparation of vaginal discharge.^[7] It was designated as *Trichomonas vaginalis* by Ehrenberg in 1838.^[8] The protozoa was regarded as harmless inhabitant of vagina for longer period and in 1916 Hohne et al identified its role as causative agent of vaginitis.^[7]

In 1940, Koch's postulates were fulfilled establishing, *T.vaginalis* as an etiologic agent of vaginitis.^{[9][10]} *T.vaginalis* began to receive increased attention as a cause of urogenital morbidity in women and in men as well. In 1961, Lang and Ludmir discussed the 'strawberry cervix' appearance of ectocervix due to the local extravasation of blood resulting in petechiae. Trussell et al in 1942 first reported this infection by the flagellate in a newborn.^[8] In the diagnosis of *Trichomonas vaginalis* infection, microscopy and the culture methods are most widely used. In 1988 Kreiger et al developed the antibody-based immuno-histochemical procedures.^[11]

EPIDEMIOLOGY

Prevalence reports for *Trichomoniasis* vary widely according to the diagnostic method used. Worldwide, the annual incidence of *Trichomonas vaginalis* is estimated to be around 180 million cases when

compared with 89 million cases of Chlamydia, 62 million cases of Gonorrhea and 12 million cases of Syphilis.^[12]

Prevalence of Trichomoniasis varies from 2 to 60.6% in different parts of India.^{[13][14]} In high-risk population and STD clinic attendee's prevalence ranges from 7 % to 74% in women and 5 to 29% in men.^[15]

A higher prevalence of Trichomoniasis was found in Blacks, multiparous women, women married at early age and during pregnancy.^[14] Other risk factors are multiple sexual contacts, poor personal hygiene and low socioeconomic status.^[16] Trichomoniasis associated with HIV infection can facilitate its transmission and acquisition of the virus by eliciting inflammatory response in the vaginal epithelium. There is 2 to 3 fold increase in HIV transmission in *Trichomonas vaginalis* infected patients^{[17][18]} and the prevalence rate of *T. vaginalis* in HIV patient's ranges from 9 to 30%.^{[19][20]} The possible mechanisms for increased transmission of HIV in *T.vaginalis* infection are:^[12]

- 1) Infection with *Trichomonas vaginalis* results in an inflammatory response, which leads to recruitment of CD4 lymphocytes and macrophages to the vaginal and cervical mucosa.

- 2) *Trichomonas vaginalis* has a direct cytopathic effect in vitro, resulting in punctate microhaemorrhages potentially compromising the mechanical barrier to HIV acquisition.
- 3) *Trichomonas vaginalis* has been shown to be associated with increased viral load in the seminal and cervico-vaginal compartments.
- 4) Finally, studies have shown that *Trichomonas vaginalis* increases susceptibility to Bacterial vaginosis or colonization with other abnormal vaginal flora that in turn could increase risk of HIV acquisition.

Concomitant infection with other sexually transmitted infections occurs with Trichomoniasis.^[21] Mixed infections with Trichomoniasis and *Neisseria Gonorrhoea* and *Chlamydia trachomatis* occurred in 1.4% of 504 East African transport workers while 61.5% of 91 men with Trichomoniasis in West Africa had coinfection with Gonococcal infection.^[21]

TRANSMISSION

Sexual transmission

Trichomonas vaginalis is almost exclusively acquired through the sexual contact with infected partner. The transmission rate is as high as 14 to 60% in men after single exposure to an infected woman^[11] where as Trichomoniasis is isolated from 67 to 100% in female partner of

infected men.^{[22][23]} Asymptomatic men and women are the important reservoirs of infection. Trichomoniasis detected in prepubertal age should raise the suspicion of sexual abuse.^[24]

Non- venereal transmission

Nonsexual transmission can occur by contaminated douche nozzles, speculum, or the toilet seats, through which Trichomonads may find their way into the vagina.^[25] However, such cases are very rare, because organism is very sensitive to desiccation. The live *T.vaginalis* has been found in urine and in semen after several hours of exposure to air and can survive up to 1hr in toilet seat, wet clothes and swimming pool water.^[26] Prenatal transmission occurs in 2 to 17% of female children of infected mothers and may be accompanied by suppurative nasal discharge and respiratory distress.^{[20][27]}

PARASITE TAXONOMY AND MORPHOLOGY

Trichomonads are flagellated eukaryotic microbes that belong to the protozoan order Trichomonadida. Over more than 100 species are known and the most are commensals of intestinal tract of mammals and birds. The three species found in humans are *Trichomonas vaginalis* of genitourinary tract, *Trichomonas tenax* of oral cavity and *Trichomonas Pentatrichomonas hominis* of intestine.^[27] *Trichomonas* represents one of the most ancient eukaryotic lineages considered as the primitive eukaryote as it lacks many features like mitochondria, peroxisomes and

28s ribosomes. ^[27] The size and shape of Trichomonads vary depending on the vaginal microenvironment and cultural conditions. Typically Trichomonads are pyriform shaped, 7-32 micrometer long, 5-12micrometer wide and roughly the size of leukocyte.

Trichomonads assume amoeboid form once they get attached to the host epithelium. ^[28] They are demonstrated by their classical erratic twitching motility as they are propelled by 4 anterior flagella that originates from the kinetosomal complex. The 5th flagella originates from the kinetosomal complex and extends halfway down the organism attached to the undulating membrane supported by the complex array of filaments known as costa. It contains an anterior nucleus containing five chromosomes, a parabasal apparatus, a golgi complex and an axostyle that runs centrally through the cell and protrudes from a posterior tail or projection. Parallel to axostyle and costa there are three rows of large chromatic granules including hydrogenosomes. Hydrogenosomes are characteristic organelles found in *Trichomonas vaginalis* and other protozoa that lack mitochondria. These are double membrane bound structures that generate hydrogen and ATP from the metabolism of pyruvate.

Trichomonads are generally thought to exist only in the motile, vegetative trophozoite form and true cysts form have not been described. Under unfavourable environmental conditions *T.vaginalis* appear in

vitro as pseudocysts.^[30,31] These Pseudocysts have altered structural features like internalized flagellae and a compact form which lacks a true cell wall.^[32]

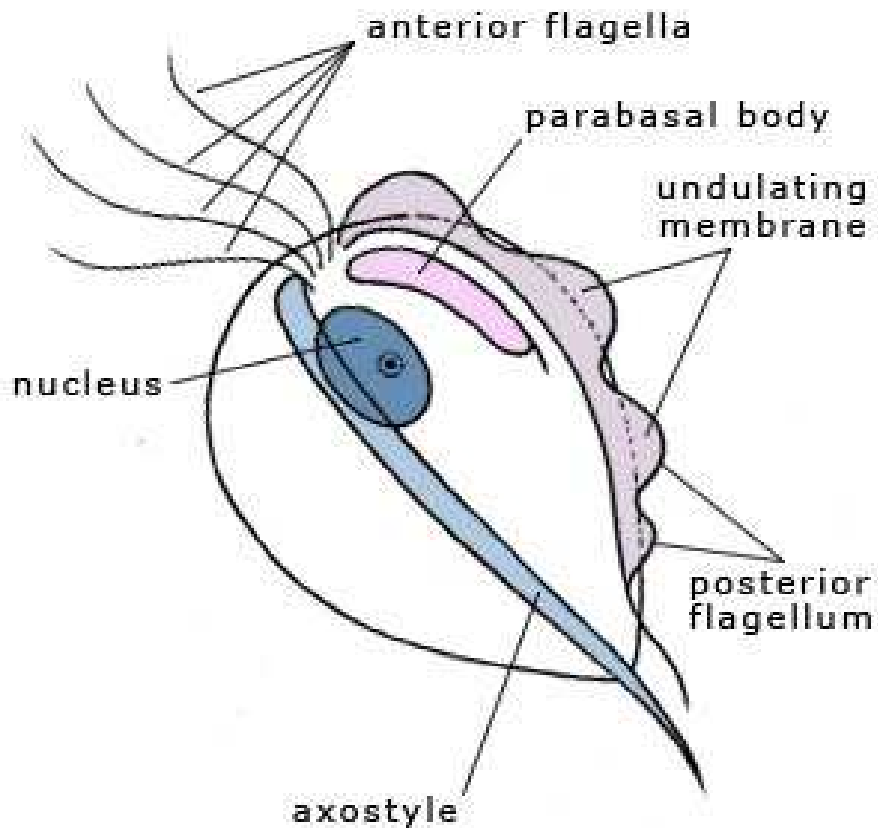


Figure 1. Structure of *Trichomonas vaginalis*.

T.VAGINALIS GENETICS AND BIOLOGY

Trichomonads reproduce asexually by mitosis followed by the longitudinal cell division. In an unusual process known as closed mitosis, the parasite nuclear envelope remains intact and the mitotic spindle is external to the nucleus. The results of electrophoretic and cytologic analyses suggest that the *T.vaginalis* nucleus contains six haploid chromosomes.^[33-35] The genomic sequencing of the protozoan

suggest a highly repetitive genome of approximately 180 mega bases that is much larger than anticipated bases on earlier studies^[36] but the exact genome size and chromosome number are uncertain. The haploid nature of *T. vaginalis* is confirmed by the ability to disrupt genes by homologous recombination.^[37,38]

GROWTH AND METABOLISM

The growth and multiplication of *T.vaginalis* is optimal in microaerophilic or anaerobic conditions with the temperature range between 35°C and 37°C and pH levels between 4.9 and 7.5.^[27] The organisms can be cultivated in nutrient media with the optimum redox potential, pH, and added antimicrobials to suppress other microorganisms.^[39] More robust, smaller organisms are observed at pH 5.5–5.8, whereas less motile and larger organisms are encountered at pH levels lower or higher than the optimum pH.

T.vaginalis is an aerotolerant anaerobic protozoan and its growth is inhibited at high oxygen tensions due to deficiency of catalase.^[40] This aerotolerance is attributed to the presence of active superoxide dismutase and whether oxygen is absent or present, Trichomonal metabolism is fermentative.

Pyruvate produced by glycolysis in the cytosol is reduced to lactate in the hydrogenosomes. *T.vaginalis* hydrogenosomes can also metabolize malate via decarboxylation to pyruvate. These organelles

contain pyruvate-oxidizing enzymes (pyruvate-ferredoxin oxidoreductase) and hydrogenase that are linked by an electron transport protein of low redox potential. The Trichomonad hydrogenosomes are also important in drug activation. Metronidazole and other nitroimidazoles, used in the treatment of Trichomoniasis, enter the cell by passive diffusion in an inactive form which are subsequently activated by hydrogenosomes to active form.^[41] Electrons required for drug activation are thought to be provided by 2Fe-2S ferredoxin. (Ferredoxin-linked electrons are generated during oxidative decarboxylation of pyruvate catalyzed by pyruvate: ferredoxin oxidoreductase).

The mechanism of development of anaerobic resistance to Metronidazole is controlled by hydrogenosome in that Metronidazole competes for hydrogen ions as an electron acceptor. In Metronidazole-resistant *Trichomonas vaginalis* the levels of hydrogenosomal enzymes (pyruvate-ferredoxin oxidoreductase, ferredoxin, malic enzyme and hydrogenase) expression is reduced dramatically, which is likely to eliminate the ability of the parasite to activate Metronidazole.^[29]

Trichomonads, like most other parasitic protozoa, are unable to synthesize purine ring structures or to interconvert purine nucleotides but however it can salvage the purine bases, adenine and guanine and their nucleosides.^[28] *T.vaginalis* also possess hemolytic activity and its

specific association with erythrocytes (hemagglutination) and subsequent hemolysis are thought to be important for destruction of erythrocytes in menstrual blood, with the release of iron, lipids and fatty acids for parasite membrane biosynthesis.

PATHOGENESIS

T.vaginalis penetrates the mucous layer and gain access to the underlying epithelial cells and attaches, resulting in tissue damage and inflammation with the help of enzymes and adhesins.^[42]

***T.vaginalis* enzymes and adhesins**

T .vaginalis produces many proteolytic enzymes that are involved in cytotoxicity, hemolysis, evasion of immune responses and adherence. Trichomonal enzymes are also found in vaginal secretions of the infected women along with the antibodies that recognize these enzymes.^[42-44] *Trichomonads* binds to mucin in vitro, and several secreted proteinases can degrade mucin which are active at pH range of 4.5–7.0^[44] that is consistent with its role in the vaginal, urethral, or prostatic PH to facilitate parasite penetration of the mucous barrier.

After traversing the mucous layer, *Trichomonads* adhere to epithelial cells that mediated by parasite surface adhesion proteins known as APs. The organism contains soluble and membrane-associated enzymes with phospholipase A (PLA) activity. ^[45-47]These PLAs lyses the nucleated mammalian cells and red blood cells in vitro and

contribute to tissue damage and inflammation in Trichomoniasis. The disruption of polarized epithelial monolayers by *T.vaginalis* facilitate penetration of HIV to underlying layers. Trichomonads adhere not only to host epithelial cells but also to the extracellular matrix components like fibronectin and laminin.^[48] This binding of trichomonads to the host extracellular matrix is important for the persistence of infection after the vaginal epithelium has been exfoliated, either by parasite-induced cytopathological effects (CPE) or shedding during the menstrual cycle.

Host component associated with *T.vaginalis*

Numerous host macromolecules like alfa1-antitrypsin, alfa 2macroglobulin, fibronectin, lactoferrin and many iron-binding and iron-containing proteins, lipoproteins^[49] are known to coat the *Trichomonas vaginalis* cell surface. These macro molecules are important for the survival of the parasite in vivo and contribute to *Trichomonas vaginalis* metabolism and pathogenicity either by biological mimicking or by accumulation of nutrients from the host. The binding of host lactoferrin to parasite surface receptor results in increased iron uptake by the parasite which in turn results in increased parasite intracellular enzyme activity and the growth of parasite in high iron pool results in increased expression of many virulence genes involved in adherence.^[50]

HOST IMMUNE RESPONSE

Infection with *T.vaginalis* elicits cellular, humoral and secretory immune responses. However, this response does not have protection against reinfection. Repeated infections are commonly encountered in women and a history of prior treatment for Trichomoniasis itself is a risk factor for infection.^[51]

i) Inflammatory responses

The vaginal or urethral inflammation is characterized by an influx of polymorphonuclear leucocytes and it represents the most obvious host response to infection with *T.vaginalis*. *T.vaginalis* can stimulate neutrophils to produce IL-8 through activation of toll-like receptor 4 (TLR4).^[52] IL-8 is a potent chemoattractant produced by neutrophils and epithelial cells in response to microbial infection, and its stimulation likely induces further neutrophil recruitment to the site of infection. Increased proinflammatory cytokine production in Trichomoniasis is consistent with increased HIV transmission, providing an explanation for the observed epidemiological synergy. *T.vaginalis* also activates HIV-infected leucocytes resulting in TNF-alpha production and increased viral replication.^[27]

ii) Antibody and complement

The antibodies and complement components present in the serum and genital fluids of the individuals with Trichomoniasis can bind the surface of *T.vaginalis* and stimulate the neutrophil respiratory burst

facilitating parasitic killing via classical and alternative complement pathways. There is little evidence that antibodies against Trichomonal antigens like heat shock proteins, cysteine proteases contribute to parasite clearance. Furthermore, persistent Trichomonal infections, a hallmark of Trichomoniasis, suggest that humoral response is not broadly protective.^[53] *T.vaginalis* resistance to humoral immune response may be due to parasite production of proteinases that can cleave human immunoglobulins and complements. Expression of these proteolytic enzymes is upregulated under certain conditions like high iron levels present during menstruation. However, there is evidence that antibodies that block attachment of the parasite to mucosal surfaces could be protective.^[54]

CLINICAL PRESENTATION

Sites of Infection:

In women, *T.vaginalis* has been isolated from all genitourinary sites. Vaginal infection is the most common site followed by infection of the urethra, Bartholin's glands, Skene's glands and endocervix.^[27] While concomitant infection of the urethra occurs in a majority of women with vaginal Trichomoniasis. Among women infected with *T.vaginalis*, almost 10% demonstrated positive cultures only from the urethra.^[55]

i) Infection in women

The spectrum of clinical presentations with *T.vaginalis* infection ranges from asymptomatic disease, to severe vaginitis. The incubation period for *T.vaginalis* infection has been reported to be between 4-28 days.^[28] About 50% of women are asymptomatic, but about 30% of this group develop symptoms when they are observed for 6 months.^[56] The most common presenting complaint among women diagnosed with *T.vaginalis* is vaginal discharge, seen in more than 50% of cases, followed by pruritus or dysuria and abdominal pain. One study of 200 Nigerian women demonstrated 74% with vaginal discharge were infected with *T.vaginalis*.^[2] The vaginal discharge can have any colour and be malodorous. The other symptoms include pruritus, dysuria and abdominal pain. Some women remain asymptomatic until after menses, suggesting a role for iron in the pathophysiology of Trichomoniasis.^[50]

On genital examination, vulvar erythema and edema may be noted. On speculum examination, the vaginal discharge can have any color or characteristic frothy yellow or greenish discharge. The vaginal walls may also appear erythematous. Colpitis macularis or 'strawberry cervix' is a result of microscopic, punctate hemorrhages on the cervix, this may be observed in lesser than 5% of women with Trichomoniasis. However, a large proportion of Trichomoniasis cases with colpitis macularis can be identified using colposcopy.^[27] Although uncommon, this finding is highly specific for Trichomoniasis. The resulting

cervicitis may lead to postcoital bleeding and cervical friability. Cervical mucopurulence and/or cervical erythema have also been observed, but these findings are neither sensitive nor specific; other STIs such as Gonorrhoea and Chlamydial infection should also be considered.

Women with Trichomoniasis are more likely to present with an elevated vaginal pH, amine odor, milky discharge, or colonization by *Gardnerella vaginalis*, *Bacteriodes* species or genital Mycoplasmas than women with normal vaginal flora. Since the vaginal environment for Trichomoniasis and Bacterial vaginosis (BV) are same, BV is found concomitantly in 25-60% of women with Trichomoniasis.^[27]

ii) Recurrent and persistent Trichomoniasis

The common source of recurrent Trichomoniasis is an untreated partner and organisms that are resistant to antimicrobial therapy.^[53] No clinical symptoms or signs can differentiate between susceptible or resistant infections. A history of potential reexposure or sexual activity with an untreated sexual partner should allow differentiation between reinfection and persistent infection.

Factors associated with *Trichomonas vaginalis* infection in women

Because of non-specific clinical presentation, studies have focused on identifying predictors of infection in women. Factors associated with *Trichomonas vaginalis* infection are given in table 1.

Reproductive complications in women

Trichomonas vaginalis is associated with a variety of adverse health consequences in both men and women. The associated morbidities and complications in women include:

- ❖ Risk factor for HIV transmission. ^[66]
- ❖ Associated with pelvic inflammatory disease. ^[67]
- ❖ Greater risk for tubal infertility. ^[11]
- ❖ Ectopic pregnancy. ^[28]
- ❖ Premature rupture of membranes, preterm birth and low birth weight. ^[11]
- ❖ Increased risk of post-hysterectomy infection. ^[2]
- ❖ Risk factor for cervical neoplasia. ^[62]
- ❖ Neonatal pneumonia in babies born to mothers with T.vaginalis infection. ^[20]

Table-1: Factors independently associated with T.vaginalis infection.

| | |
|-----------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Demographic characteristics | U.S African American race. ^[57] Low education attainment. ^[58] Unemployment. |
| Behavioral characteristics | Sex with non-steady partner. ^[59] Separated women. Prostitution. ^[59] Failure to use contraception. ^[60] Self-reported infertility. ^[61] Smoking. ^[62] Alcohol. ^[63] Injecting drug abuse. ^[64] Marijuana use. ^[65] |
| Clinical characteristics | Older women (30-49 years). ^[64] Vaginal pH >5. Concomitant sexually transmitted infections- Chlamydia, Gonorrhoea, Bacterial vaginosis, Mycoplasma hominis, Ureaplasma. ^[65] |

DIAGNOSIS

Diagnosis of Trichomoniasis based on the classical clinical symptoms of yellowish-green frothy discharge, pruritus, dysuria, dyspareunia, and “strawberry” cervix^[68] cannot be made solely because of following reasons:

- ❖ The clinical symptoms of Trichomoniasis is synonymous with those of other STDs.^[69-72]
- ❖ The classic finding “strawberry” cervix is approximately seen in 2% of patients.

- ❖ The frothy discharge is seen in only 12% of women with *Trichomonas vaginalis*.^[24]

In 1980, Fouts and Kraus demonstrated that if only the classic features are used alone in the diagnosis of Trichomoniasis, as many as 88% of infected women will not be diagnosed and 29% of uninfected women will be falsely diagnosed as having infection.^[24] Hence the clinical manifestations are not reliable diagnostic parameters and the laboratory investigations are necessary for the accurate diagnosis of Trichomoniasis.

METHODS OF SPECIMEN COLLECTION

VAGINAL:^[73]

- ❖ Clean the external genitalia using a sterile gauze swab moistened with sterile normal saline
- ❖ Insert a warmed vaginal speculum moistened with sterile saline.
- ❖ Material is obtained under direct vision from the posterior and lateral fornices of the vagina using sterile cotton / dacron swabs or disposable 10µL bacteriological loops.
- ❖ In women who have undergone hysterectomy, specimens are taken from lateral fornices of the vagina.
- ❖ Vaginal swabs from unmarried women are performed through the hymen opening from the posterior wall of vagina (a speculum

should not be used) or specimens can be obtained from the introitus.

FIRST CATCH URINE:^[73]

The FCU specimen (approximately 10–15 mL) has to be collected into a sterile container. The urine may be centrifuged and the pellet tested. However, the sensitivity of urine testing is lower than that of vaginal sampling.

DIRECT MICROSCOPIC EXAMINATION

Diagnosis of *Trichomonas vaginalis* infection in most parts of the world is carried out by saline wet preparation method. *T.vaginalis* is identified as pear-shaped organisms about the size of a pus cell with typical jerky /erratic twitching movement. In most of the cases, increased numbers of polymorphonuclear leucocytes are present. The *Trichomonas vaginalis* is difficult to differentiate from the nucleus of a vaginal epithelial cell when it is immotile. Motility is dependent mainly on the temperature of the specimen. At room temperature in phosphate-buffered saline, the organism will remain alive for more than 6 hrs however, the motility of the organism becomes significantly attenuated at lower temperatures.^[73] Diagnosis by wet mount requires visualization of viable, motile protozoa and hence specimens must be examined immediately. The wet mount technique has low sensitivity of 30 to 80%.^[74] The sensitivity of wet-mount is further reduced as a result of

even short delays between specimen collection and microscopic examination.^[75]

The accuracy of the diagnosis is dependent on two factors :

- ❖ The specimen should remain moist to retain viability and therefore the motility of the Trichomonads (the microscopy should be performed within 30 min of preparation of the wet mount) and
- ❖ The microscopist should be skilled in recognizing Trichomonads.^[76]

A minimum of 10^4 organisms per milliliter of vaginal fluid appears to be necessary for the identification of the *Trichomonas vaginalis* by wet mount. The various staining methods like acridine orange, Giemsa, fluorescein, neutral red, immunoperoxidase and Periodic Acid-Schiff have been described to improve the sensitivity of microscopic evaluations. Routine Papanicolaou stained smears have demonstrated *T.vaginalis* on cytological examination in asymptomatic women.^[77] However, detection using the Papanicolaou test results in a high percentage of false-negative results with a sensitivity of 60% and a specificity of 95–97%.^[77,78] Confirmation of the finding of Trichomonads using another method is recommended.

According to the 2006 guidelines for the treatment of STI published by Centre for Disease Control and Prevention (CDC), a culture of vaginal secretions is recommended when *T.vaginalis* is suspected clinically but not seen on a wet mount.^[79]

CULTURE

Culture in liquid medium has remained the gold standard for the diagnosis of *Trichomonas vaginalis* infection for the past 40 years and has the higher sensitivity of 71-100% and specificity of 100%.^[27] It is very useful method when the organism load is low as in asymptomatic women and men with chronic disease, as it requires as few as 300-500 *Trichomonads*/ml of inoculum to initiate growth in culture.^[28] The various media that have been used to detect *Trichomonads* are Diamond (Trypticase, yeast and maltose), Modified Diamond, Kupferberg's Trichosel medium, Lash, NIH, Feinberg-Whittington media and cysteine peptone liver media (CPLM). The formulations of Diamond medium are superior to that of Kupferberg or Lash medium for the growth of *Trichomonas vaginalis*.^[80]

The standard broth used is Diamond's medium, eventually modified according to Fouts and Kraus, i.e. with streptomycin replaced by netilmicin.^[73] The Incubation period of 2–7 days is required to isolate *Trichomonas vaginalis* in culture.^[81] Even when broth cultures are spiked with antibiotics to reduce contamination by vaginal flora, contamination

with bacteria is the major problem. Passage of the cultures after 2–3 days to reduce the bacterial contamination may be required to identify *Trichomonas vaginalis* definitively. The organism has the capacity to enter lag growth and even in well-established axenic culture and can sometimes have attenuated growth for 24–48 h before re-establishing its characteristic log/day growth.^[73] Due to the expense of the technique, culture has not been readily available in many centres, but would be the most effective way of establishing the true epidemiology of Trichomoniasis vaginalis, particularly where STI clinics are remote from the clinical laboratory.

To circumvent these problems, systems such as the InPouch TV culture system have been developed whereby the specimen is inoculated into a two-chambered bag, allowing sampling for immediate wet mount microscopy and incubation for culture. *Trichomonas vaginalis* is an anaerobic organism that grows more slowly under aerobic conditions. It is important to note that *Trichomonas vaginalis* should be grown at the bottom of the pouch and the pouches ought to be incubated in a vertical position. The use of InPouch TV culture system has been shown to be at least as effective as Diamond's medium.^[73, 82]

Culture of *T.vaginalis* should be performed using either liquid or semi liquid culture media in tubes. The volume of the media should be not less than 5ml.^[73]

IMMUNOLOGICAL TESTS

Serological diagnosis by Agglutination, Indirect hemagglutination, Complement fixation, Gel diffusion, Fluorescent antibody, and Enzyme-linked immunosorbent assay are used to demonstrate the presence of antitrichomonal antibodies. Since the Trichomonal antibodies can persist for a longer time after treatment, current and past infections cannot be distinguished by these tests. Monoclonal antibodies to immunogens 62k-Da and 65-kDa proteins for the detection of *T.vaginalis* from the clinical specimens have shown similar results as wet-mount preparations.^[73]

Rapid diagnostic test like latex agglutination test have made the prompt diagnosis of infection possible and same day treatment.^[73]

MOLECULAR METHODS

Nucleic acid amplification tests like Polymerase Chain Reaction (PCR) have improved the sensitivity of diagnosis of *T.vaginalis*.^[83] Unlike PCR for STI like Gonorrhoea and Chlamydia for which amplification results have greater sensitivity than culture methods, the currently published amplification techniques for Trichomoniasis in women do not appear to offer a similar diagnostic advantage. However, PCR is superior to culture for diagnosis of *T.vaginalis* in men.^[27]

TREATMENT

Definitive therapy for Trichomoniasis is by nitroimidazoles (metronidazole, tinidazole, ornidazole, carnidazole, and nimorazole). Topical metronidazole is not effective for the therapy of Trichomoniasis.^[84] The Centers for Disease Control and Prevention (CDC) has estimated that 5% of clinical isolates of *T vaginalis* exhibited some degree of Metronidazole resistance.^[85] Metronidazole resistance may predict Tinidazole resistance. The CDC has proposed an escalated therapeutic regimen for the management of infection with resistant strains. Other drugs like furazolidone, a nitrofurantoin, was shown to be effective in vitro against both laboratory and clinical specimens with high level metronidazole resistance.

RECOMMENDED REGIMEN:^[86]

1. CDC regimen (2010)

- ❖ Tab Metronidazole 2g orally in single dose (or)
- ❖ Tab Tinidazole 2g orally in single dose.

Alternative regimen

- ❖ Tab Metronidazole 500mg orally twice daily for 7 days.

In pregnancy

- ❖ Tab Metronidazole 2gm orally in single dose.

In neonatal infections^[87]

- ❖ Tab Metronidazole 5 mg/kg orally three times daily for 5 days.

Treatment Failures ^[88-90]

Recommended regimen

- ❖ Tab Metronidazole 500mg twice daily for 7 days. (or)
- ❖ Tab Metronidazole 2g orally once daily for 3-5 days.

Alternative regimen

- ❖ Tab Tinidazole 2 g twice daily for 14 days. (or)
- ❖ Tab Tinidazole 500 mg three times daily for 7–10 days. (or)
- ❖ Tab Tinidazole 1.5 g three times daily for 14 days. (or)
- ❖ Tab Tinidazole 1 g twice daily for 14 days .

Note

- ❖ Patients on Metronidazole and other imidazoles should be cautioned not to consume alcohol while they are taking the drug, and up to 24 hours after taking the last dose.
- ❖ Metronidazole is not recommended in the first trimester of Pregnancy.
- ❖ Asymptomatic women with Trichomoniasis should be treated with the same regimen as symptomatic women.

2. WHO regimen (2003)

- ❖ Tab Metronidazole 2g orally single dose.(or)
- ❖ Tab Tinidazole 2g orally single dose.(or)
- ❖ Tab Metronidazole 400 mg orally twice daily for 7days.(or)
- ❖ Tab. Tinidazole 500 mg twice daily for 5days.

3. NACO regimen(2007)

- ❖ Tab. Metronidazole 2g orally single dose. (or)
- ❖ Tab.Tinidazole 2g orally single dose. (or)
- ❖ Tab. Metronidazole 400mg orally twice daily for 7days.

4. Syndromic management

Vaginal Discharge syndrome: Green Kit: Tab.Secnidazole 2gm single dose stat and Tab. Fluconazole 150mg single dose stat.

Partner treatment

Partners of patients with Trichomoniasis who have had sexual contact with the index patient in the past 60 days should be notified for evaluation and the epidose should be given and sexual abstinence is recommended for 7 days following treatment of both the index case and the partner.

Follow up

The patients are reviewed after seven days of treatment if symptoms persist. The reinfection should be carefully excluded. Patients not cured following initial therapy often respond favourably to repeat treatment with the seven-day regimen. The resistance to the 5-nitroimidazoles may be another cause for treatment failure.

Patients not cured with the repeated course of metronidazole can be treated with tablet metronidazole 2 g orally daily, together with 500 mg applied intravaginally each night for 3–7 days. Intravaginal metronidazole are only recommended for the treatment of refractory infections along with oral medication and not for the primary therapy of Trichomoniasis. Alternatively Metronidazole 400mg or 500mg orally twice daily for seven days can be used.

PREVENTION AND CONTROL

- ❖ Partner notification and treatment.
- ❖ The promotion of condom use and other barrier methods.
- ❖ Vaccination and immunity

Abraham et al ^[91] were able to induce immunity to *T.vaginalis* in mouse model, which lead to the development of vaccine. Immunity to infection is difficult to induce in humans because even repeated

infections do not confer immune protection despite demonstrable antibodies in serum and vaginal secretions.

To date only one vaccine had been produced against *T vaginalis*. The Solco Trichovac vaccine which was prepared from inactive lactobacilli and was thought to work by inducing antibodies to abnormal lactobacilli and *T.vaginalis* without adversely affecting the growth of normal lactobacilli in the vagina.^[91] However, lack of antigenic similarity between this vaccine and *T.vaginalis* was shown,^[92] which makes this cross-reaction hypothesis unlikely and the clinical trials of Solco Trichovac have yielded inconclusive data.^[93]

AIMS AND OBJECTIVES

- 1) To study the prevalence of symptomatic and asymptomatic Trichomonas infection in female patients attending STD OP.
- 2) To study sensitivity pattern of wet mount and culture.
- 3) To study disease characteristics and associated STD infections with Trichomoniasis.
- 4) To study risk factors associated with Trichomoniasis.

MATERIALS AND METHODS

STUDY DESIGN

Cross-sectional study.

STUDY GROUP

500 female patients were enrolled in the study. 250 symptomatic and 250 asymptomatic patients are selected randomly. Patients with complaints of vaginal discharge, dysuria, dyspareunia, pruritus, lower abdominal pain are taken as symptomatic group, and patients attending STD OP for routine checkup & for screening are taken as asymptomatic group.

4 vaginal swabs were taken from the posterior fornix of each patient, one swab was used for wet mount preparation and another swab was inoculated directly into the Diamond's TYIS-33 medium and other two swabs were used for KOH and Grams staining respectively.

The Institute ethics committee clearance was obtained and informed consent was taken from the recruited women.

INCLUSION CRITERIA

- ❖ Patient aged > 18yrs and < 55yrs.
- ❖ Female patient attending STD OP with complaints of vaginal discharge, dysuria, dyspareunia, pruritus, LAP are taken as

symptomatic group, and patients attending STD OP for routine checkup & for screening are taken as asymptomatic group.

EXCLUSION CRITERIA

- ❖ Patients aged <18 to > 55yrs.
- ❖ Pregnant, lactating and menstruating women.
- ❖ Patients taken treatment with any antibiotics including Metronidazole 3 weeks prior to study period.
- ❖ 4 Patients with severe medical disorder.

HISTORY

A detailed history was obtained pertaining to the following parameters - age, occupation, socioeconomic status, educational status, marital history, sexual, contraceptive, obstetric, past, personal, recent treatment history, history suggestive of systemic ailments, and sexually transmitted infections related symptoms as per the proforma enclosed.

EXAMINATION

A thorough genital examination was done using Cusco's self retaining bivalve speculum and the abnormalities in the vulva, vagina and cervix were noted. The amount, odour, colour and consistency of vaginal discharge were noted. The discharge was labelled scanty if it was insufficient to collect on the speculum; moderate if it was sufficient to collect on the speculum and profuse if it was visible at the introitus

even before speculum insertion. The vaginal pH was measured directly using pH indicator strips against the lateral vaginal wall or over speculum blade.

SAMPLE COLLECTION

A sterile cotton swab was used to collect the vaginal discharge from the posterior vaginal fornix under direct vision and the specimen was subjected to a series of laboratory tests. However, in virgin females, the specimen was obtained from the introitus. A bimanual examination was done in all except virgins to look for adnexal tenderness.

LABORATORY INVESTIGATIONS

From each patient examined, four samples of vaginal discharge from the posterior fornix were collected with sterile cotton swabs.

- 1) The first swab was subjected immediately to wet mount microscopy using normal saline to observe for motile Trichomonads under 100X and 400X magnifications.
- 2) With the second sample, a 10% potassium hydroxide (KOH) mount was prepared and whiffed for the presence of fishy odour (Amine test) and the same was examined for the presence of budding yeast cells under 100X and 400X magnifications.
- 3) The third sample was immediately inoculated directly and swirled into the Diamond medium (prepared at Department of Serology,

Institute of Venereology. MMC). The culture tubes with 5ml of the broth were incubated in anaerobic atmosphere at 35⁰ C.

- 4) The fourth sample was streaked on to a microscopic slide for Gram stain for the presence of clue cells, yeast cells and pus cells under 1000X magnification.

All participants underwent culture for Gonococcus, blood VDRL and tested for HIV antibodies.

DIAGNOSIS

1.Trichomoniasis: Diagnosis was made based on the following:

Wet mount:

A drop of normal saline was put over a clean, grease free microscopic slide. To this a drop of vaginal fluid was added and mixed well. A cover slip was put over the mixture, so that there was a uniform spread without air bubble. The slide was observed under 40 x magnification of the objective.

Reading: Pear shaped flagellated organisms approximately the size of lymphocyte (10-20 µm) or that of a small neutrophil with characteristic jerky movements.

Culture:

Diagnosis is made by performing wet mounts from the drop of Diamond's culture media for evidence of motile Trichomonads by

examining cultures after 48 hours of incubation and on 3rd, 5th and 7th day.

2. **Bacterial vaginosis:** Diagnosis was made based on Amsel's criteria in which presence of three out of the four criteria is necessary:

- a. Excessive homogenous uniformly adherent vaginal discharge.
- b. Vaginal pH more than 4.5.
- c. Positive amine test (Whiff test).
- d. Presence of clue cells on microscopic examination.

3. **Candidiasis:** Diagnosis was made based on positive microscopy and/or culture.

4. **Mucopurulent cervicitis:** Those patients whose Gram's stain of cervical smear having 30 or more polymorphonuclear leukocytes per oil immersion field in cervical mucus.

5. **Pelvic inflammatory disease (PID):** A diagnosis of PID was made if in addition to the presenting symptoms of abnormal vaginal discharge and lower abdominal pain, adnexal tenderness was elicited on examination.

MEDIA PREPARATION

Diamonds TYIS medium:

Ingredients: for 1000ml.

1. Trypticase -20gm.
2. Yeast extract -10gm.
3. Maltose -5gm.
4. L.Cysteine hydrogen phosphate- 0.5gm.
5. L.Ascorbic acid - 0.2gm.
6. Dipotassium hydrogen phosphate -0.8gm.
7. Potassium dihydrogen phosphate -0.5gm.
8. Agar -0.5gm.

In 900ml of distilled water.

PROCEDURE

- 1) Mix the content in distilled water.
- 2) Autoclave the medium at 115⁰c for 20min.
- 3) Cool the medium to 50⁰c and add 100ml of horse serum and 10mg% chloramphenicol.
- 4) Pour 5ml of media into pre-sterilised screw capped glass tubes of 15ml capacity.

- 5) Lable the tubes .
- 6) Stored at 4⁰c till use.

Culture method

Culture is the gold standard for the diagnosis of T.vaginalis. The vaginal discharge specimen is inoculated in the Diamond's medium, for optimal growth the medium is filled in long glass tube so as to provide anaerobic condition at the bottom. The inoculum is placed at the bottom of the tube and incubated at 37⁰c, and observed for the growth under microscope from 2nd day onwards .Tubes are incubated till 7days before declaring it negative.

Observations: Turbidity in the culture media suggests growth. A wet mount is then prepared from a drop of media fluid and observed under light microscope for motile T.vaginalis.

STATISTICAL ANALYSIS

The data collected was tabulated in Microsoft Excel Worksheet and computer-based analysis was performed using the SPSS 13.0 software (SPSS, Chicago, IL, USA). The categorical variables were summarized as proportions and percentages. The continuous variables were summarized as mean and standard deviation. For comparison of proportions, Chi-square test was used. In cases where any one of cell value was less than five, Fisher's exact test was used.

OBSERVATIONS AND RESULTS

The present study was conducted in the Institute of Venereology, Madras Medical College, Chennai, to assess the prevalence of Trichomoniasis in symptomatic and asymptomatic female patients attending STD OPD using wet mount and culture. The study group was divided into 2 main groups:

- a) Symptomatic group: Consisting of 250 patients.
- b) Asymptomatic group: Consisting of 250 patients.

Patients who presented with complaints of vaginal discharge, dysuria, dyspareunia, pruritus, lower abdominal pain and other genitourinary symptoms were taken as symptomatic group, and patients attending STD OPD for routine checkup & for screening were taken as asymptomatic group. [History could not be elicited in one of the positive patient of asymptomatic group who was referred from institute of mental health for screening.]

The data collected is analyzed using Chi square test and the statistical significance was considered if p value is <0.05 .

DEMOGRAPHIC PARAMETERS OF STUDY POPULATION

1. Age group

The age distribution of study population are shown in table 2. The mean age group of patients in symptomatic group is 33.85 ± 9.65 and in asymptomatic group the mean age is 34.25 ± 9.36 .

Table-2. Age distribution of study population.

| Age Group (In years) | Symptomatic Group (N=250) | Asymptomatic Group (N=250) |
|-------------------------|------------------------------|-------------------------------|
| ≤ 25 | 48 [19.2%] | 51 [20.4%] |
| 26-35 | 99 [39.6%] | 92 [36.8%] |
| >35 | 103 [41.19%] | 107 [42.8%] |
| Total | 250 [100%] | 250 [100%] |
| Mean \pm SD | 33.85 ± 9.65 | 34.25 ± 9.36 |
| Range | 18-55 | 18-56 |

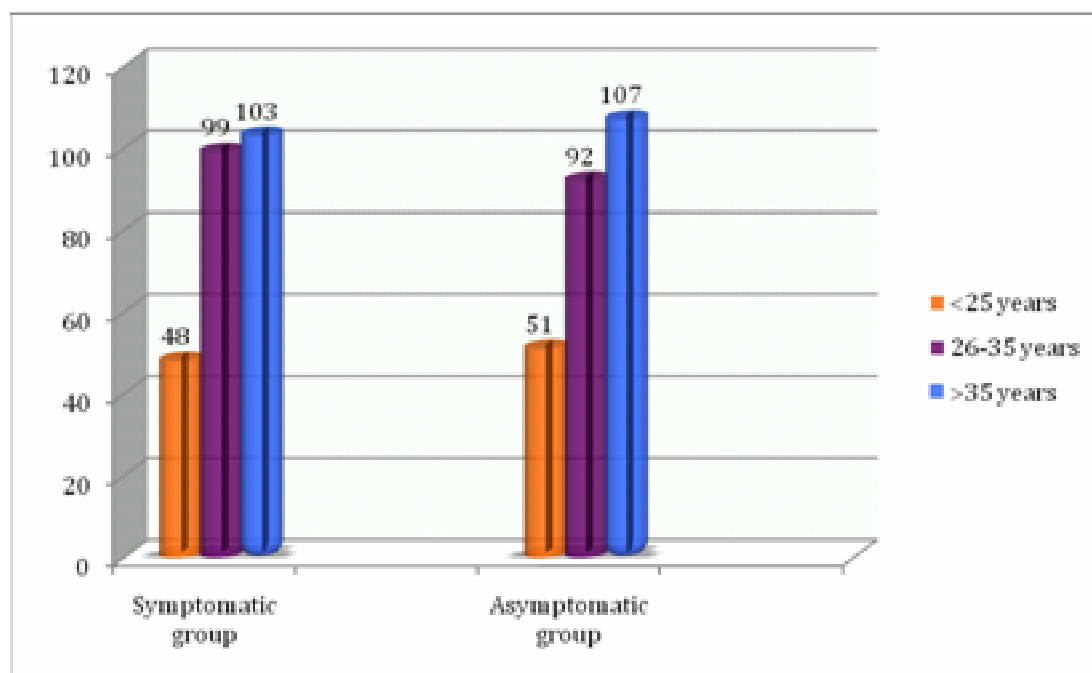


Fig 2: Age Distribution of Study Group.

2. AREA OF RESIDENCE

Most of the patients in our study group were from urban areas, which constituted 72.2%, and about 27.8% are from rural areas. Figure 3 shows the area of distribution of residence in our study group.

Table 3: Area of Residence of Study Group.

| Residence | Symptomatic Group | Asymptomatic Group | Total |
|-----------|-------------------|--------------------|-------------|
| Urban | 185(74%) | 176(70%) | 361 (72.2%) |
| Rural | 65(26%) | 74(30%) | 139 (27.8%) |
| Total | 250(100%) | 250(100%) | 500 |

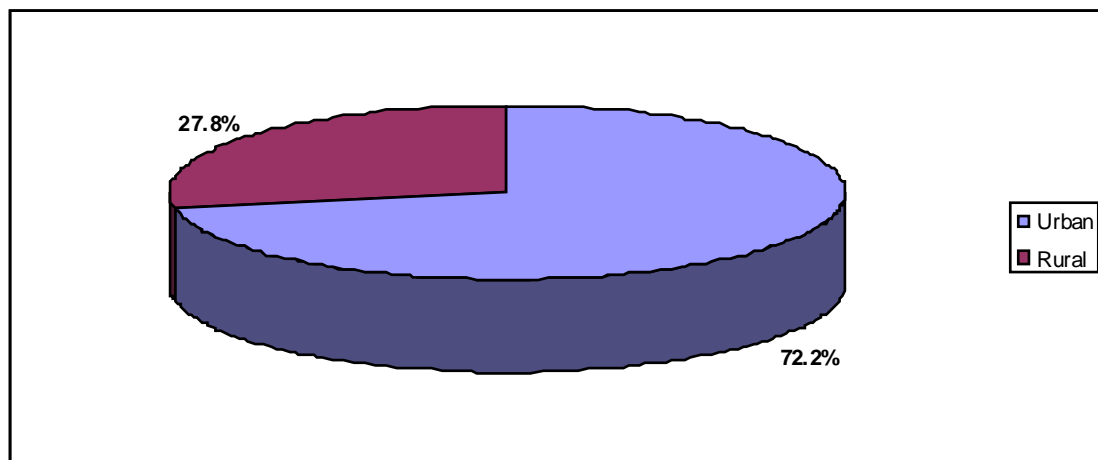


Fig 3: Area of Residence of Study Group.

3. SOCIOECONOMIC STATUS

Our study group was stratified into various socioeconomic classes as per Kuppuswamy's socioeconomic status scale. The SE status of our study group is shown in table 4. The majority of patients in symptomatic group 121 (48.40%) belonged to upper lower class (Class-IV) and about 63 (25.20%) patients were in lower class (Class-V), 56 (22.40%) patients were in lower middle class (Class-III). In asymptomatic group, 148(59.19%) women belonged to lower class (Class-V). The figure 4 and 5 shows Socioeconomic status of symptomatic and asymptomatic group respectively.

Table 4: Socioeconomic Status of the Study Group.

| SE status | Symptomatic Group (N=250) | Asymptomatic Group (N=250) |
|------------------|----------------------------------|-----------------------------------|
| Upper middle | 10 [4.0 %] | 0 [9.2%] |
| Lower middle | 56 [22.40 %] | 23[42.8%] |
| Upper lower | 121 [48.40%] | 78[31.2%] |
| Lower | 63 [25.20%] | 148 [59.19%] |

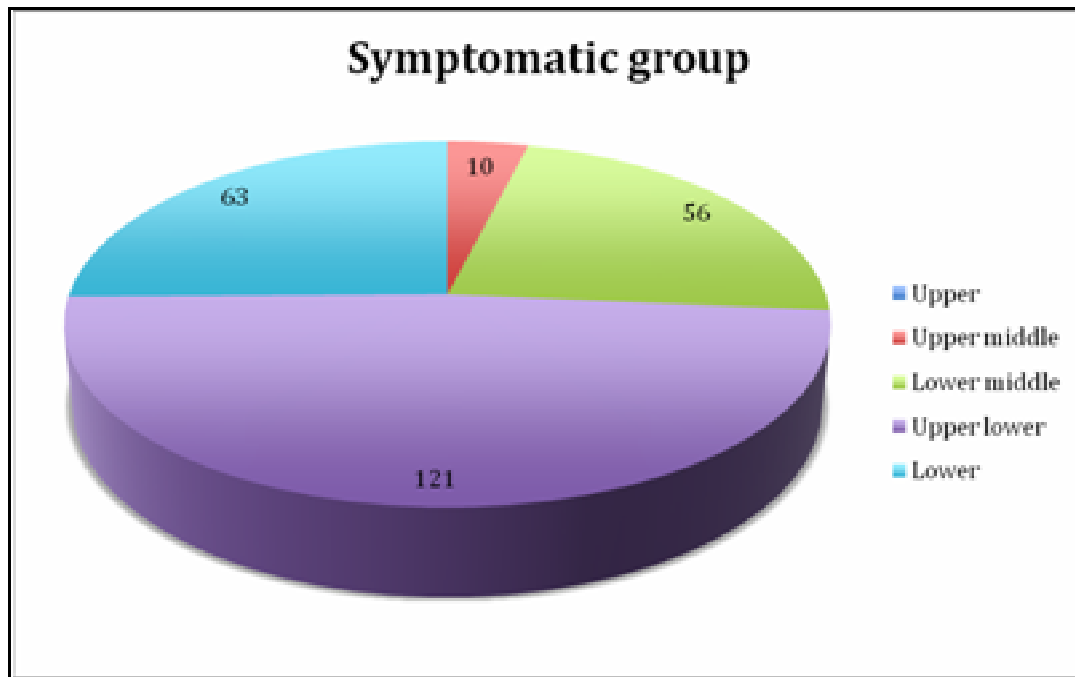


Fig 4: Socioeconomic Status of Symptomatic Group.

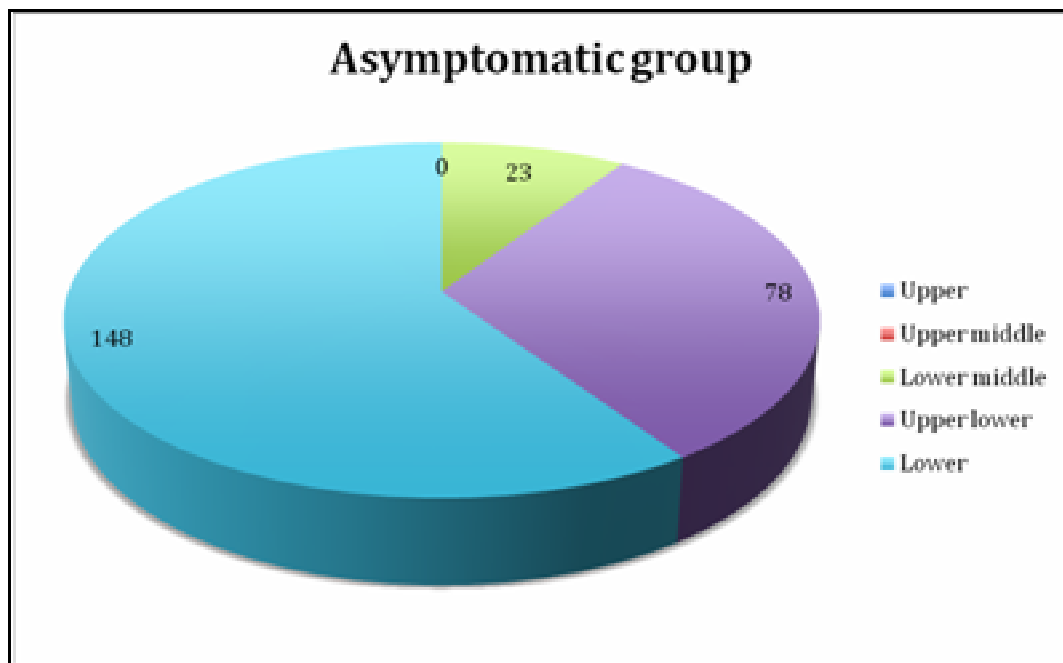


Fig 5: Socioeconomic Status of Asymptomatic Group.

4. EDUCATION STATUS

The education status of the study group is shown in table 5. About 128 (51.2%) women in symptomatic group and 143 (57.19%) women in asymptomatic group had educational status upto 6th to 12th standard.

Table-5. Education status of the study Group.

| Education status | Symptomatic Group (N=250) | Asymptomatic Group (N=250) |
|------------------|------------------------------|-------------------------------|
| Illiterate | 22 [8.79] | 41 [16.40] |
| Primary | 100 [40.0 %] | 66 [26.40%] |
| 6th-12 th | 128 [51.2 %] | 143[57.19%] |

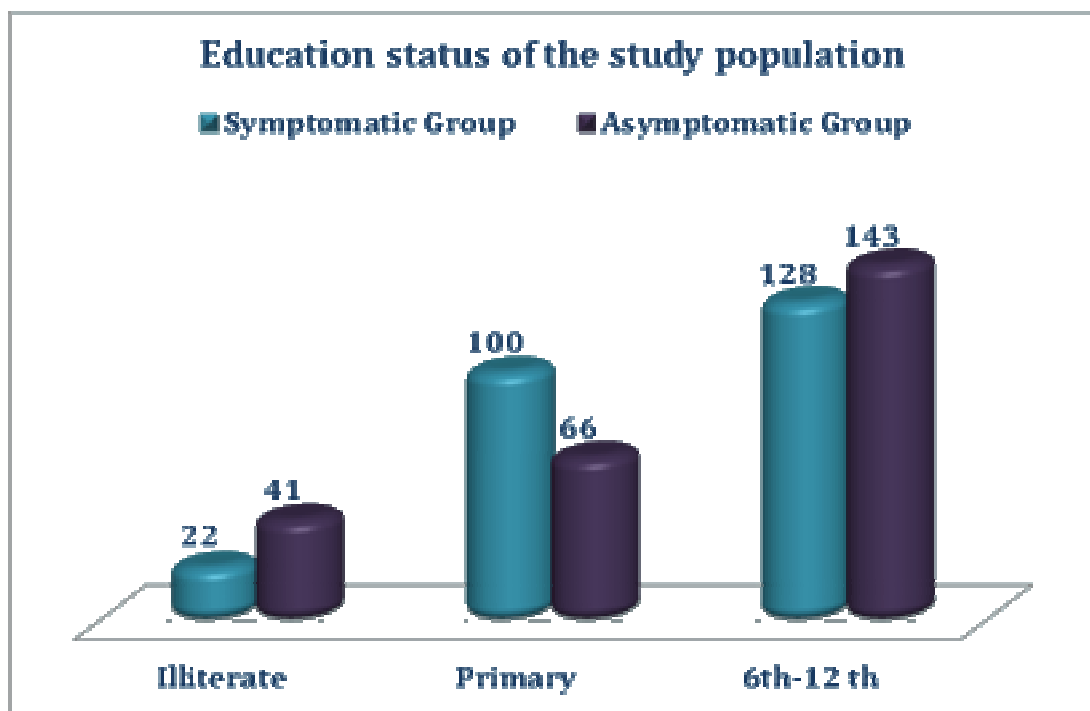


Fig 6. Education status of the Study Group.

5. MARITAL STATUS

Majority of women in our study group are married (92% in symptomatic group and 96.39% in asymptomatic group) and living with their husbands. About 20% women in symptomatic group and 2.4% women in asymptomatic group were living single.

Table-6: Marital Status of the Study Group.

| Marital status | Symptomatic Group (N=250) | Asymptomatic Group (N=250) |
|----------------|---------------------------|----------------------------|
| Married | 230 (92%) | 242 (96.39) |
| Single | 20 (8%) | 6 (2.4%) |
| Widow | 0 | 1(0.4%) |

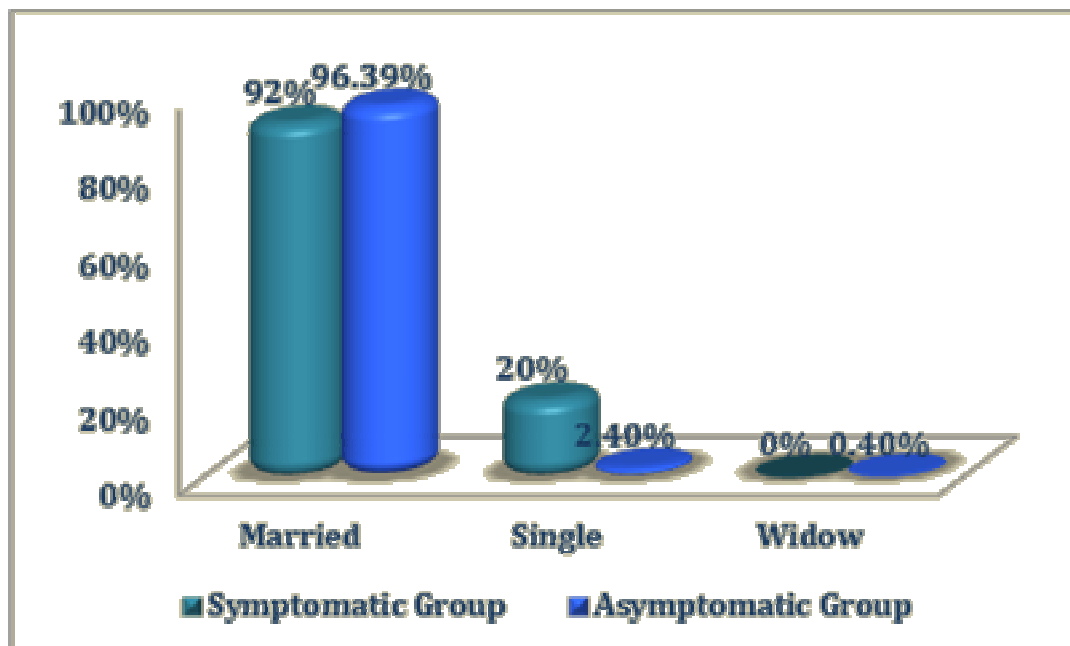


Figure7. Marital status of Study Group.

6. PRE/EXTRAMARITAL CONTACT

A history of premarital or extramarital contact was present in 27 (10.80%) women in symptomatic group and 30 (12%) women in asymptomatic group.

Table-7. Pre/Extramarital contact in Study Group.

| Pre/ Extramarital contact | Symptomatic Group (N=250) | Asymptomatic Group (N=250) |
|------------------------------------------|--------------------------------------|---------------------------------------|
| Present | 27 [10.80 %] | 30[12%] |
| Absent | 223 [89.2%] | 220 [88%] |

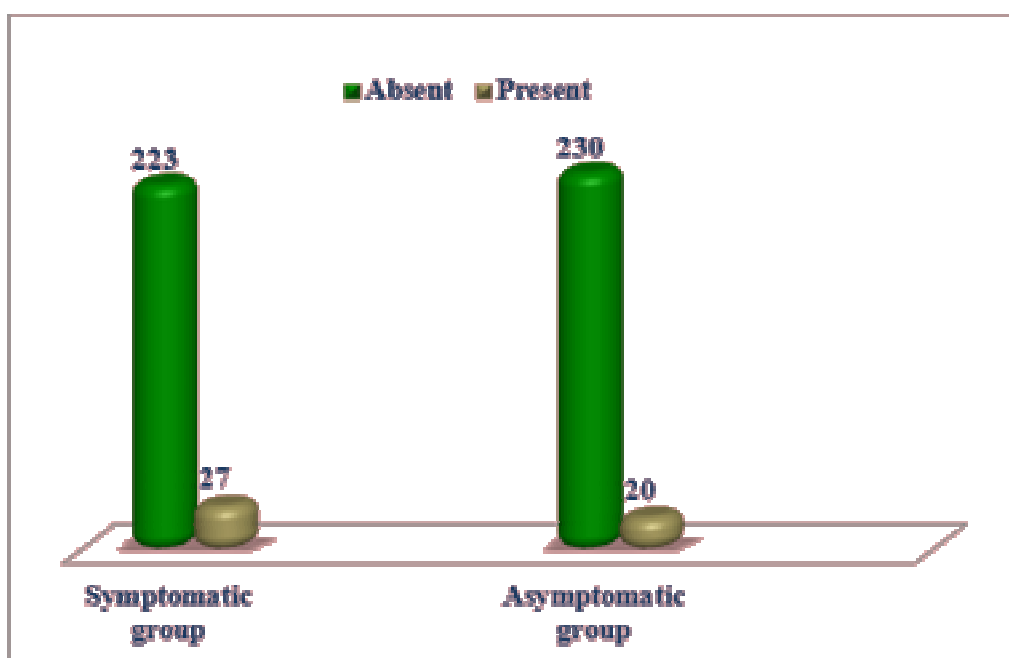


Figure-8. Shows Pre/Extramarital contact in Study Group.

7. PROMISCUITY OF THE PARTNER

The Partners of 13 women (5.2%) in symptomatic group and two women (0.8%) in asymptomatic group had history of extramarital contact. The concerned women however had no extramarital contact.

Table-8. Promiscuity of the partner in Study Group.

| Partners with extramarital contact | Symptomatic Group (N=250) | Asymptomatic Group (N=250) |
|------------------------------------|---------------------------|----------------------------|
| Absent | 166 [66.40%] | 228 [91.20%] |
| Present | 13 [5.2 %] | 2[0.8%] |
| Unknown | 50 [20 %] | 16[6.4%] |
| Not applicable (For single women) | 21 [8.4%] | 4 [1.6%] |

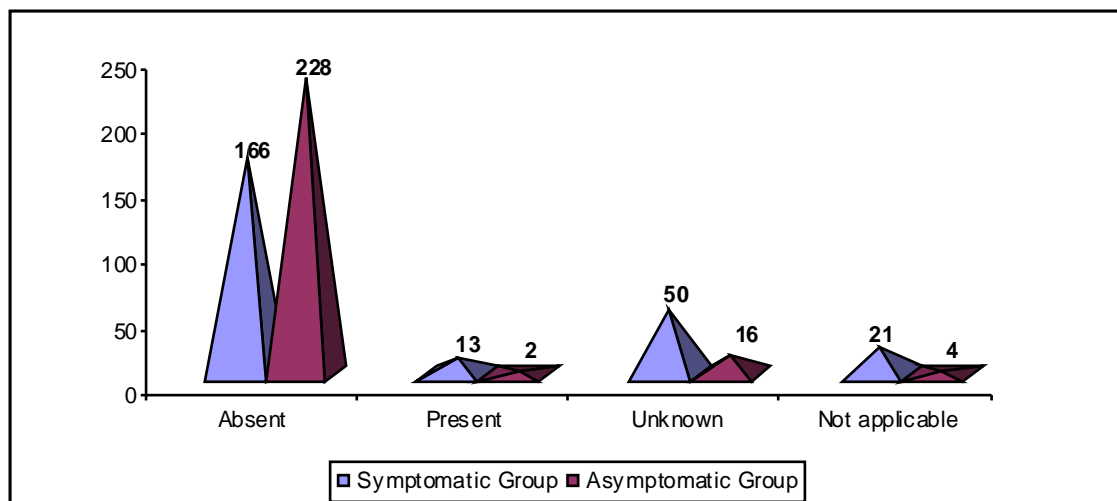


Figure-9. Shows Extramarital Contact of the Partners in Study Group.

STUDY PARAMETERS OF TRICHOMONAS POSITIVE PATIENT

PREVALENCE OF TRICHOMONIASIS IN STUDY GROUP

In our study a total of 8% of women had Trichomoniasis out of 500 women examined. 31 out of the 250 women (12.4%) in symptomatic group had infection with *T.vaginalis* by culture and /or wet mount and 9 out of 250 (3.6%) asymptomatic women had Trichomoniasis by culture and/or wet mount.

Table-9: Prevalence of Trichomoniasis in Study Group

| No. of patients | Symptomatic group | Asymptomatic group |
|----------------------------|-------------------|--------------------|
| Trichomonas positive cases | 31 (12.4%) | 9 (3.6%) |
| Trichomonas negative cases | 219 (87.6%) | 241(96.4) |
| Total | 250 | 250 |

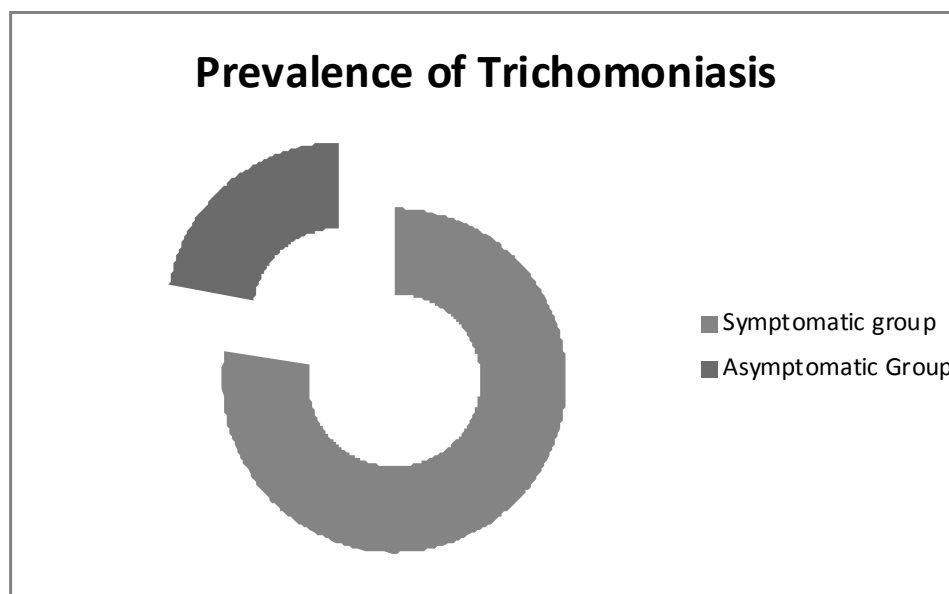


Fig 10: Prevalence of Trichomonas positive patients in Study Group.

DEMOGRAPHIC AND SOCIOECONOMIC FACTORS

1. Age

The table 10 shows age distribution of Trichomonas positive patients in both symptomatic and asymptomatic groups. The mean age group of Trichomonas positive patients in symptomatic group is 32 ± 7 years whereas in asymptomatic group mean age is 34 ± 8 years.

Table-10. Shows Age Distribution in Trichomoniasis patients.

| Age Group (In years) | Symptomatic Group | Asymptomatic Group |
|-------------------------|----------------------|----------------------|
| | Trichomonas Positive | Trichomonas Positive |
| ≤ 25 | 4 [12.9%] | 1[11.1%] |
| 26-35 | 19[61.3%] | 7[77.8%] |
| >35 | 8 [25.8%] | 1[11.1%] |
| Total | 31[100%] | 9[100%] |
| Mean \pm SD | 32 ± 7 | 34 ± 8 |
| Range | 18-49 | 19-50 |

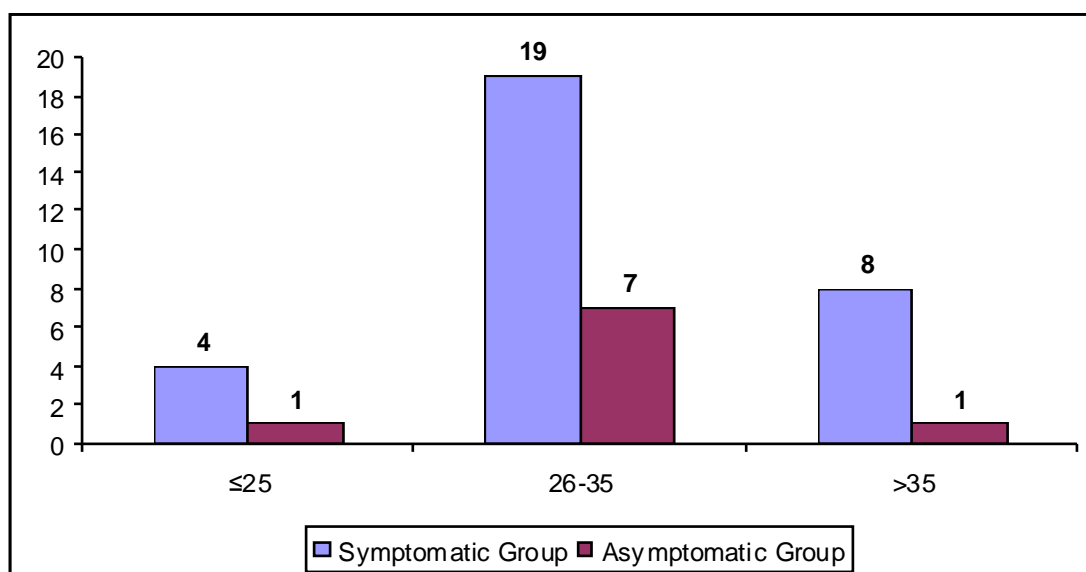


Figure11. Age Distribution among Trichomonas Positive Patient.

2. Area of residence

Most of the positive patients were from urban areas which constituted 67% and the rural inhabitants constituted about 33%.

Table-11: Area of residence of Trichomonas Positive Patients

| Area of Residence | Symptomatic Group | Asymptomatic Group | Total |
|-------------------|----------------------|----------------------|-----------|
| | Trichomonas Positive | Trichomonas Positive | |
| Urban | 21 (67.7%) | 6 (67%) | 27 (67%) |
| Rural | 10 (32.2%) | 3 (33.3%) | 13 (33.3) |
| Total | 31 (100%) | 9 (100%) | 40 (100%) |

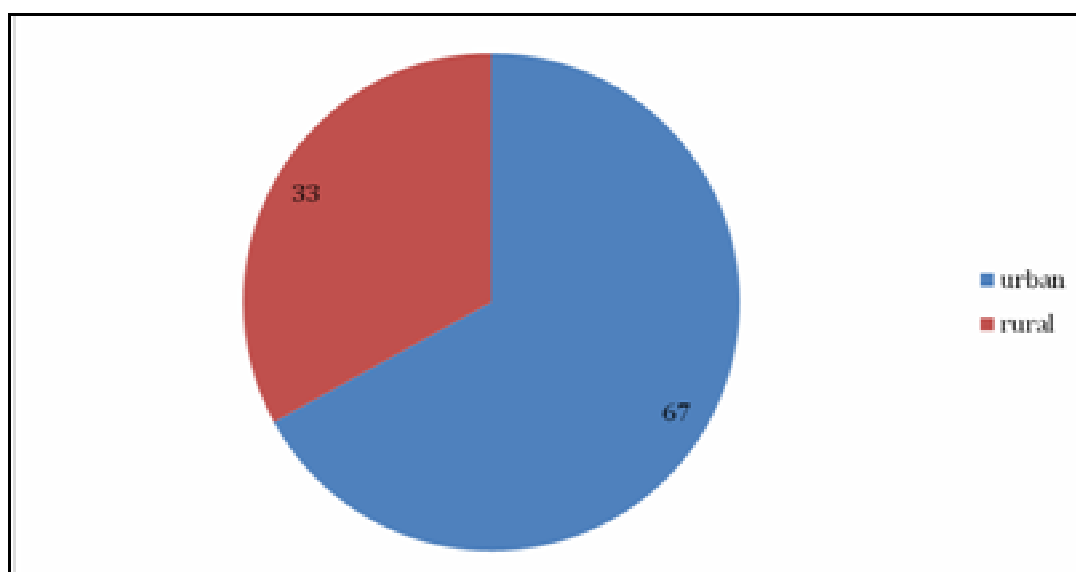


Fig12. Area of residence of Trichomonas positive cases in study group.

3. Socioeconomic status :

Our study group was stratified into various socioeconomic classes as per Kuppuswamy's socioeconomic status scale shown in table 12. The majority of Trichomonas positive patients 17(54.8%) in symptomatic group belonged to the lower socioeconomic class (class V). About 10 (27.3%) patients were in upper lower class (class IV), 3 (9.7%) patients in lower middle class (class III) and one (3.2%) patient in upper middle class (class II). In asymptomatic group majority of positive patients 6 (75%) belonged to upper lower class (class IV) followed by 2 patients (25%) in lower class (class V). The p value is 0.001 when compared to Trichomonas negative patients, which is statistically significant.

Table-12. Socioeconomic Status of Trichomoniasis Patients in Study Group.

| SE status | Patients | | | |
|------------------|--------------------------|----------|---------------------------|----------|
| | Symptomatic Group | | Asymptomatic group | |
| | Trichomonas | | Trichomonas | |
| | Positive | | Positive | |
| | N | % | N | % |
| Upper middle | 1 | 3.2 | 0 | 0 |
| Lower middle | 3 | 9.7 | 0 | .0 |
| Upper lower | 10 | 32.3 | 6 | 75.0 |
| Lower | 17 | 54.8 | 2 | 25.0 |
| Total | 31 | 100.0 | 8 | 100.0 |

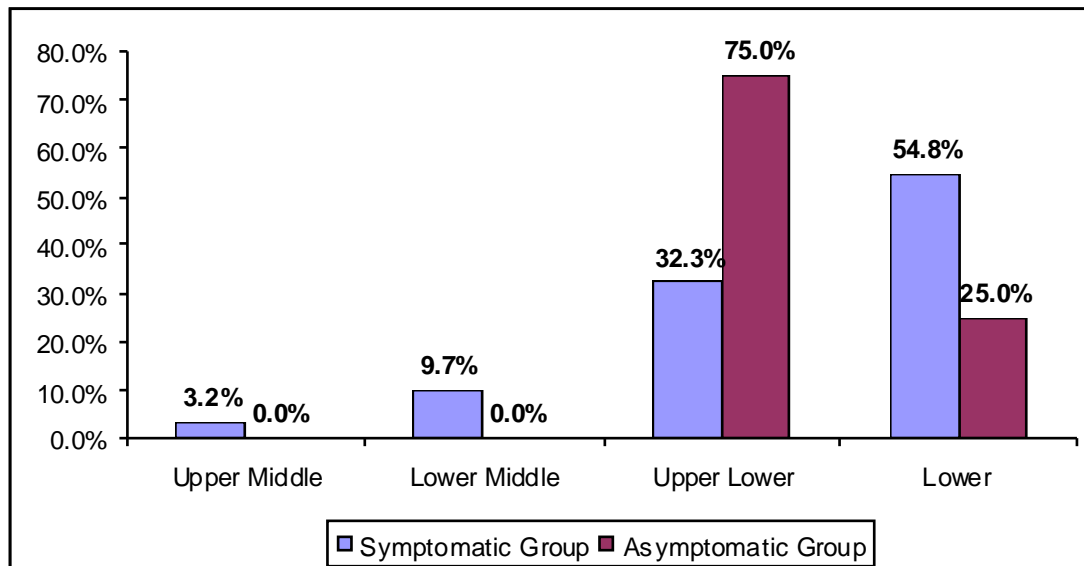


Figure-13. Socioeconomic Status of Trichomonas positive Patients.

4. Education status

The table 13, shows the Education status of Trichomonas positive patients in the study group. Most of the women in symptomatic group had education level upto 6 -12th standard, whereas in asymptomatic group majority of patients with Trichomoniasis (87.5%) were in primary education status level.

Table-13. Education Status of Trichomonas Positive Patients in Study Group.

| Educational status | Patients | | | |
|--------------------|-------------------|------|--------------------|------|
| | Symptomatic Group | | Asymptomatic Group | |
| | Trichomonas | | Trichomonas | |
| | Positive | | Positive | |
| | N | % | N | % |
| Illiterate | 4 | 12.9 | 1 | 12.5 |
| Primary | 12 | 38.7 | 7 | 87.5 |
| 6th- 12th | 14 | 45.2 | 0 | .0 |
| Professional | 1 | 3.2 | 0 | .0 |

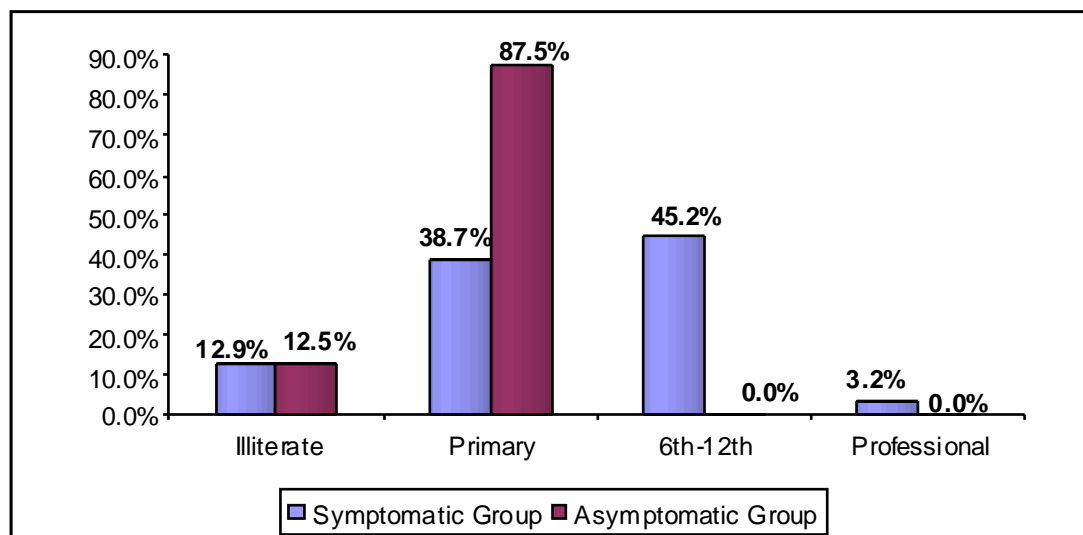


Figure 14. Education Status of Trichomonas positive Patients in Study Group.

5. Marital status

Majority of women (74.2%) in our study were married and living with their husbands. About 25% women were living single in the Trichomonas positive patients of symptomatic group and 25% women were single and 12.5% women were widowed in asymptomatic positive group. The p value is <0.05 when compared to Trichomoniasis negative single (5.5%) patients in the study.

Table 14. Marital status of Trichomoniasis patients in study group

| Marital status | Patients | | | |
|----------------|-------------------|-------|--------------------|-------|
| | Symptomatic Group | | Asymptomatic Group | |
| | Trichomoniasis | | Trichomoniasis | |
| | Positive | | Positive | |
| | N | % | N | % |
| Married | 23 | 74.2% | 5 | 62.5% |
| Single | 8 | 25.8% | 2 | 25% |
| Widow | 0 | .0% | 1 | 12.5% |
| Total | 31 | 100.0 | 8 | 100.0 |

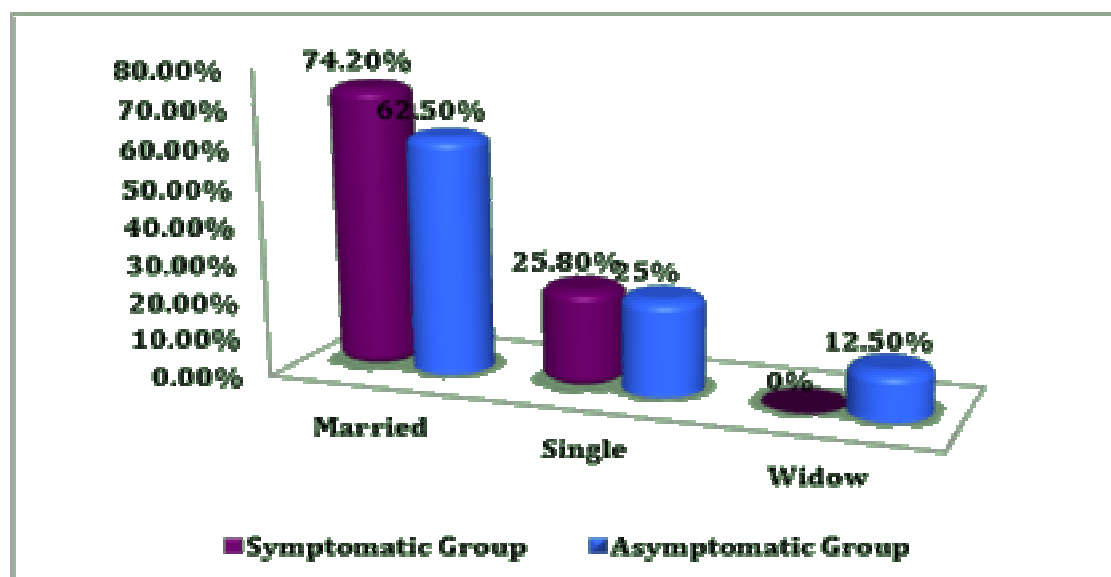


Figure 15. Marital Status of Trichomoniasis Patients in Study Group.

6. Pre/Extramarital contact.

The history of Premarital or Extramarital contact was present in 14 (45.2%) of positive patients when compared to negative patients 13(5.9%) in symptomatic group. About 10 Trichomoniasis positive women in our study group indulged in prostitution as compared to 4 women in Trichomoniasis negative group. The p value is 0.001 which is statistically significant.

Table-15. Pre/Extramarital contact in Trichomoniasis Patients of study group.

| Pre/extramarital contact | Patients | | | |
|--------------------------|-------------------|-------|--------------------|-------|
| | Symptomatic Group | | Asymptomatic Group | |
| | Trichomonas | | Trichomonas | |
| | Positive | | Positive | |
| | N | % | N | % |
| Present | 14 | 45.2 | 4 | 50.0 |
| Absent | 17 | 54.8 | 4 | 50.0 |
| Total | 31 | 100.0 | 8 | 100.0 |

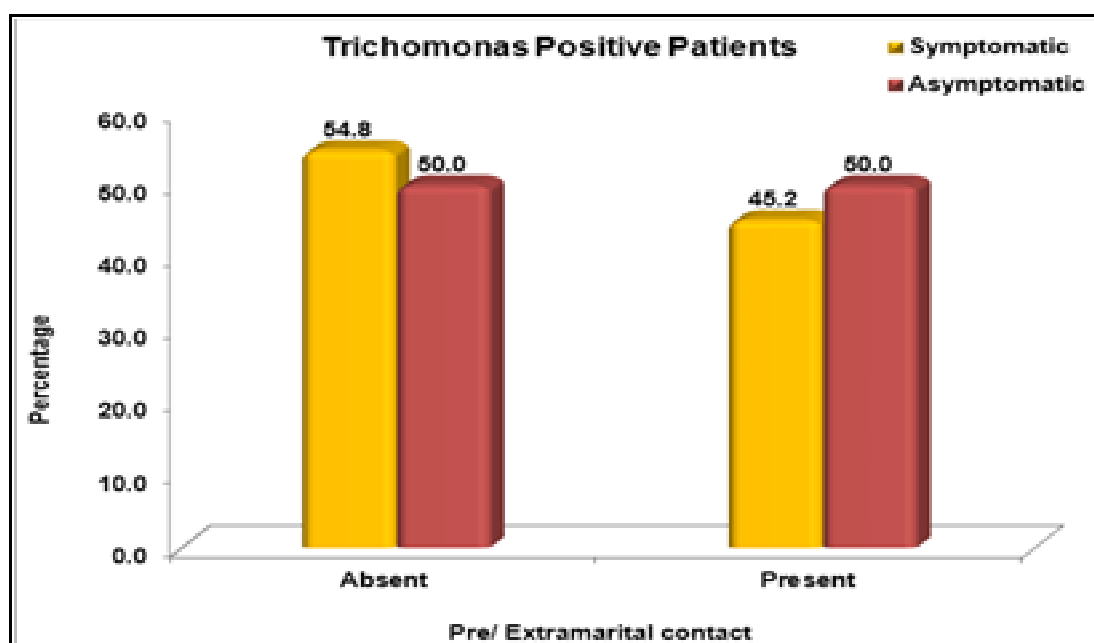


Figure-16. Pre/ Extramarital contact in Trichomonas positive patients.

7. Promiscuity of the Partner.

The husbands of seven (22.6%) women with Trichomoniasis in symptomatic group had extramarital contact. This was significantly higher as compared to those without Trichomoniasis (2.7%) in the study group. The p value is 0.001 which is statistically significant.

Table-16. Promiscuity of Partner in Trichomonas Positive Patients.

| Promiscuity of the partner | Patients | | | |
|-----------------------------------|-------------------|-------|--------------------|-------|
| | Symptomatic Group | | Asymptomatic Group | |
| | Trichomonas | | Trichomonas | |
| | Positive | | Positive | |
| | N | % | N | % |
| Present | 7 | 22.6 | 0 | .0 |
| Absent | 9 | 29.0 | 3 | 37.5 |
| Unknown | 8 | 25.8 | 3 | 37.5 |
| Not applicable (for single women) | 7 | 22.6 | 2 | 25.0 |
| Total | 31 | 100.0 | 8 | 100.0 |

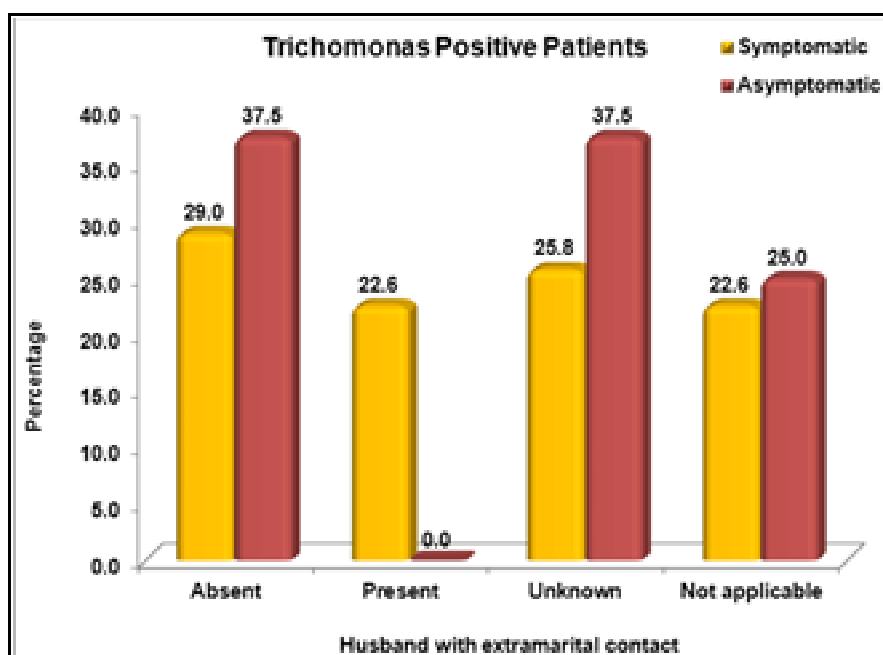


Figure 17: Promiscuity of the Partner in the Trichomonas Patients.

8. Contraception

Majority of the married women in our study were Tubectomised in both the groups i.e 14(45.2%) and 9(100%) of positive cases in symptomatic and asymptomatic women respectively . Only 7(22.6%) women in positive cases used barrier methods as contraceptive.when compared to Trichomonas negative patients(15.6%). The p value is >0.05 (Nonsignificant).

Table-17. Method of contraception in Trichomoniasis Positive Study Group.

| Contraception | Patients | | | |
|---------------|-------------------|-------|--------------------|--------|
| | Symptomatic Group | | Asymptomatic Group | |
| | Trichomonas | | Trichomonas | |
| | Positive | | Positive | |
| | N | % | N | % |
| Sterilization | 14 | 45.2% | 8 | 100.0% |
| Barrier | 7 | 22.6% | 0 | .0% |
| IUCD | 2 | 6.5% | 0 | .0% |
| Not Followed | 8 | 25.8% | 0 | .0% |
| Total | 31 | 100.0 | 8 | 100.0 |

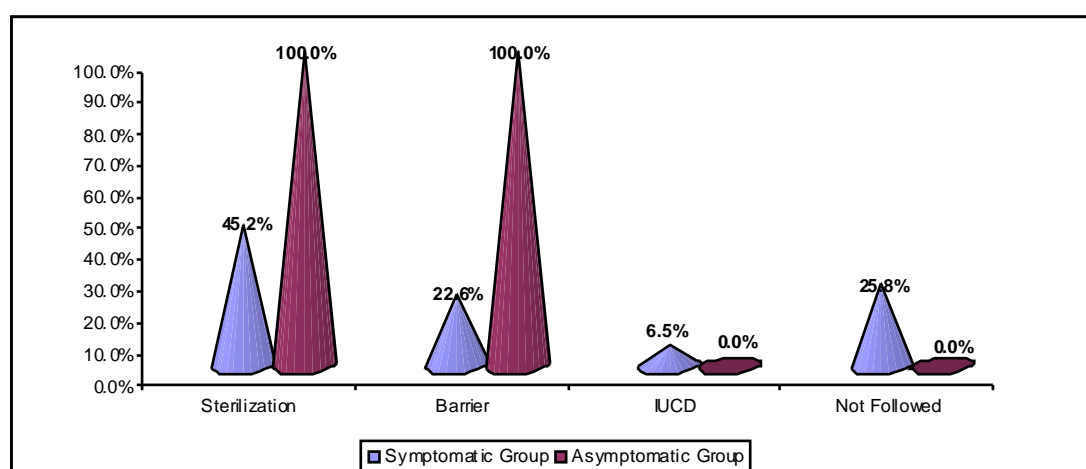


Figure-18. Contraception method in Trichomonas Positive Patients.

9. Obstretic history

In our study 12.9% of Trichomonas positive women had history of abortion when compared to only 0.5% in Trichomonas negative patients. The p value is <0.05 which is statistically significant.

Table-18. Obstretic History of Study Groups.

| Obstretic history | Patients | | | |
|-------------------|-------------------|-------|--------------------|-------|
| | Symptomatic Group | | Asymptomatic Group | |
| | Trichomonas | | Trichomonas | |
| | Positive | | Positive | |
| | N | % | N | % |
| Normal delivery | 15 | 48.4% | 4 | 50.0% |
| LSCS | 3 | 9.7% | 4 | 50.0% |
| Abortion | 4 | 12.9% | 0 | 0% |
| Nullipara | 9 | 29.0% | 0 | 0% |
| Total | 31 | 100.0 | 8 | 100.0 |

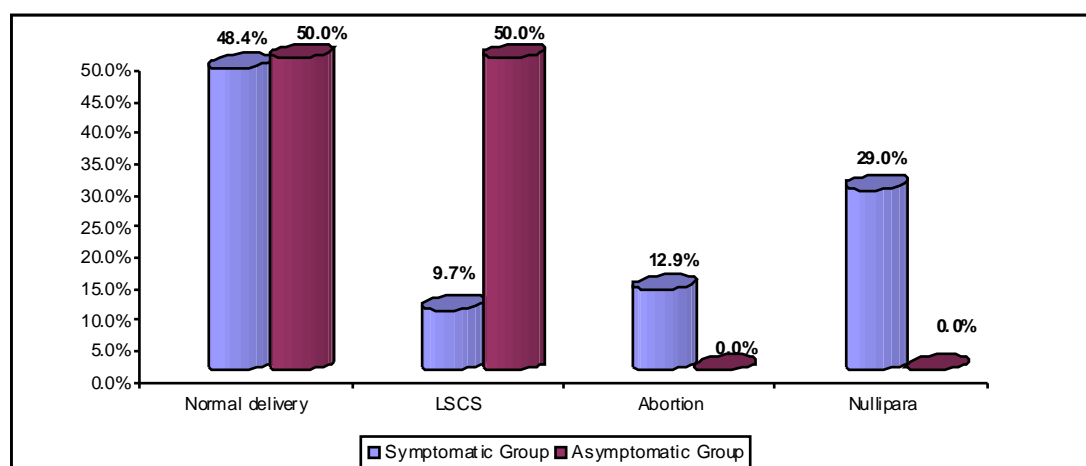


Figure-19. Obstretic History of Trichomonas Positive Patients.

10. Symptoms in Partner.

In our study 6.5% of partners of Trichomoniasis patients in symptomatic group had urethritis, pruritus and dysuria. In partners of Trichomonas negative women 5.5% had urethritis, 1.5% had balanitis and none had dysuria. The p value is <0.5 which is statistically significant.

Table-19. Symptoms in Partners of the Study Groups.

| Symptoms in partner | Patients | | | |
|---------------------|-------------------|-------|--------------------|-------|
| | Symptomatic Group | | Asymptomatic Group | |
| | Trichomoniasis | | Trichomoniasis | |
| | Positive | | Positive | |
| | N | % | N | % |
| Unknown | 21 | 67.7% | 5 | 62.5% |
| Urethritis | 2 | 6.5% | 1 | 12.5% |
| Dysuria | 2 | 6.5% | 0 | 0% |
| Balanitis | 3 | 9.7% | 0 | 0% |
| Pruritus | 2 | 6.5% | 0 | 0% |
| Others | 0 | 0% | 1 | 12.5% |
| No Symptoms (Nil) | 1 | 3.2% | 1 | 12.5% |
| Total | 31 | 100.0 | 8 | 100.0 |

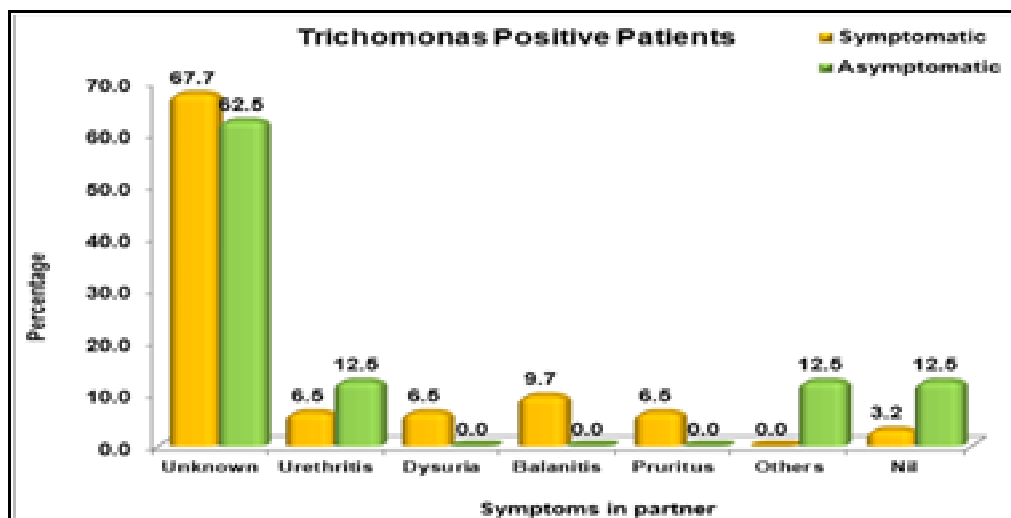


Figure-20. Symptoms in Partners of Trichomonas positive women.

11. Substance Abuse.

Only two Trichomoniasis positive cases in asymptomatic group had history of alcohol abuse.

Table-20. Shows Substance Abuse in Study Groups.

| Substance abuse | Cases | | | |
|-----------------|-------------|-------|--------------|-------|
| | Symptomatic | | Asymptomatic | |
| | Trichomonas | | Trichomonas | |
| | Positive | | Positive | |
| | N | % | N | % |
| Yes | 0 | .0 | 2 | 25.0 |
| No | 31 | 100.0 | 6 | 75.0 |
| Total | 31 | 100.0 | 8 | 100.0 |

12. Past history of PID/ Infertility/ Venereal disease.

About 6 (19.9%) women with Trichomoniasis in symptomatic group had previous history suggestive of venereal disease and 3 (9.67%) women had history suggestive of PID. Whereas 2 women with Trichomoniasis in asymptomatic group had history of venereal disease (22.2%).

Table-21. Past History of PID/Infertility/Venereal disease.

| Past history of | Symptomatic Group | Asymptomatic Group |
|------------------|----------------------|----------------------|
| | Trichomonas positive | Trichomonas positive |
| PID | 3(9.67%) | 0 |
| Infertility | 0 | 0 |
| Venereal disease | 6(19.35%) | 2(22.2%) |
| None | 22(70.96) | 6(77.7%) |
| Total | 31(100%) | 9 |

B). DISEASE CHARACTERISTICS IN TRICHOMONAS POSITIVE PATIENT

1. Age of onset of Vaginal Discharge.

The mean age of onset of discharge in Trichomoniasis patients in both symptomatic and asymptomatic group is 34.

Table 22. Age of onset of Discharge is Study Group.

| Trichomonas | Age of Onset (years) | Symptomatic | Asymptomatic | Total |
|--------------------|-----------------------------|--------------------|---------------------|--------------|
| Positive | Mean | 30 | - | 30 |
| | Standard Deviation | 7 | - | 7 |
| | Median | 30 | - | 30 |
| | Minimum | 16 | - | 16 |
| | Maximum | 40 | - | 40 |
| Negative | Mean | 34 | - | 34 |
| | Standard Deviation | 10 | - | 10 |
| | Median | 33 | - | 33 |
| | Minimum | 15 | - | 15 |
| | Maximum | 60 | - | 60 |

2.Duration of Vaginal Discharge.

Majority of women (77.4%) with Trichomoniasis in symptomatic group had history of vaginal discharge for less than one year.

Table 23. Shows Duration of Vaginal Discharge in Study Group.

| Duration of vaginal discharge | Patients | | | |
|-------------------------------|-------------------|-------|--------------------|-------|
| | Symptomatic Group | | Asymptomatic Group | |
| | Trichomoniasis | | Trichomoniasis | |
| | Positive | | Positive | |
| | N | % | N | % |
| Less than one year | 24 | 77.4 | 0 | .0 |
| More than one year | 7 | 22.6 | 0 | 100.0 |
| Total | 31 | 100.0 | 9 | 100.0 |

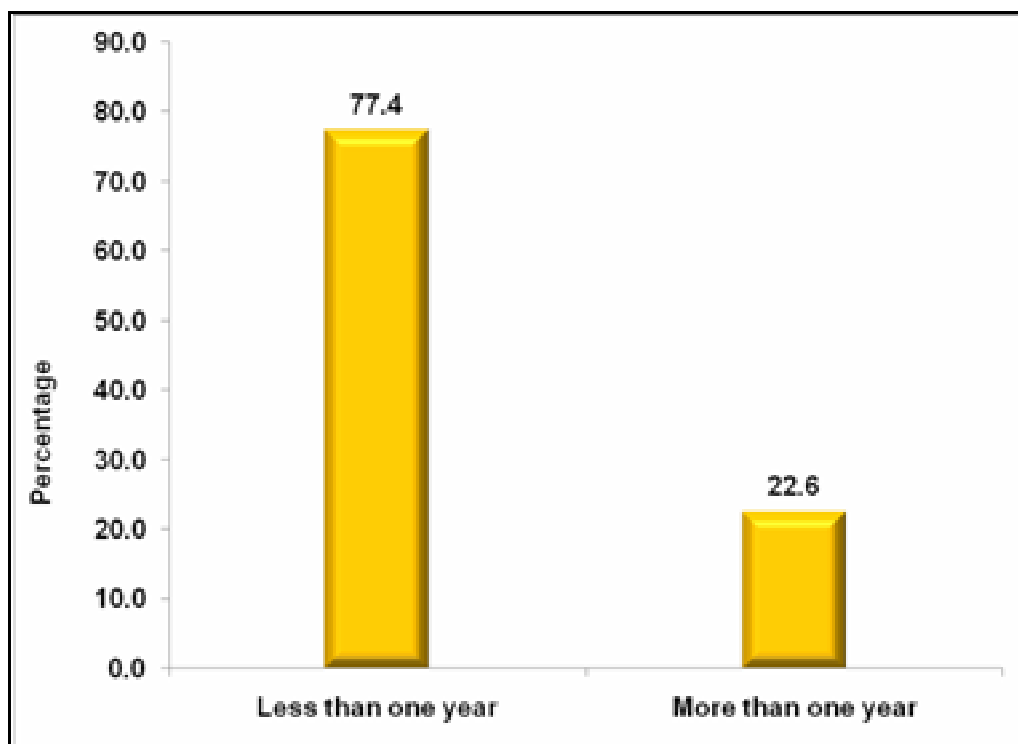


Figure-21. Duration of Vaginal discharge in Trichomonas positive patients in symptomatic group.

3. Relation to menstruation.

In our study 64.5% women gave history of increased symptoms during menstruation when compared to negative cases that had only 20% of similar history. The p value is <0.05 which is statistically significant.

Table-24. Relation of T.vaginalis infection to Menstruation.

| Relation to menstruation | Patients | | | | | | | | | | | |
|--------------------------|-------------------|-------|----------|-------|--------------------|----|----------|----|-------------|-------|----------|-------|
| | Symptomatic Group | | | | Asymptomatic Group | | | | Total | | | |
| | Trichomonas | | | | Trichomonas | | | | Trichomonas | | | |
| | Negative | | Positive | | Negative | | Positive | | Negative | | Positive | |
| | N | % | N | % | N | % | N | % | N | % | N | % |
| Yes | 44 | 20.1 | 20 | 64.5 | 0 | .0 | 0 | .0 | 44 | 20.1 | 20 | 64.5 |
| No | 175 | 79.9 | 11 | 35.5 | 0 | .0 | 0 | .0 | 175 | 79.9 | 11 | 35.5 |
| Total | 219 | 100.0 | 31 | 100.0 | 0 | .0 | 0 | .0 | 219 | 100.0 | 31 | 100.0 |

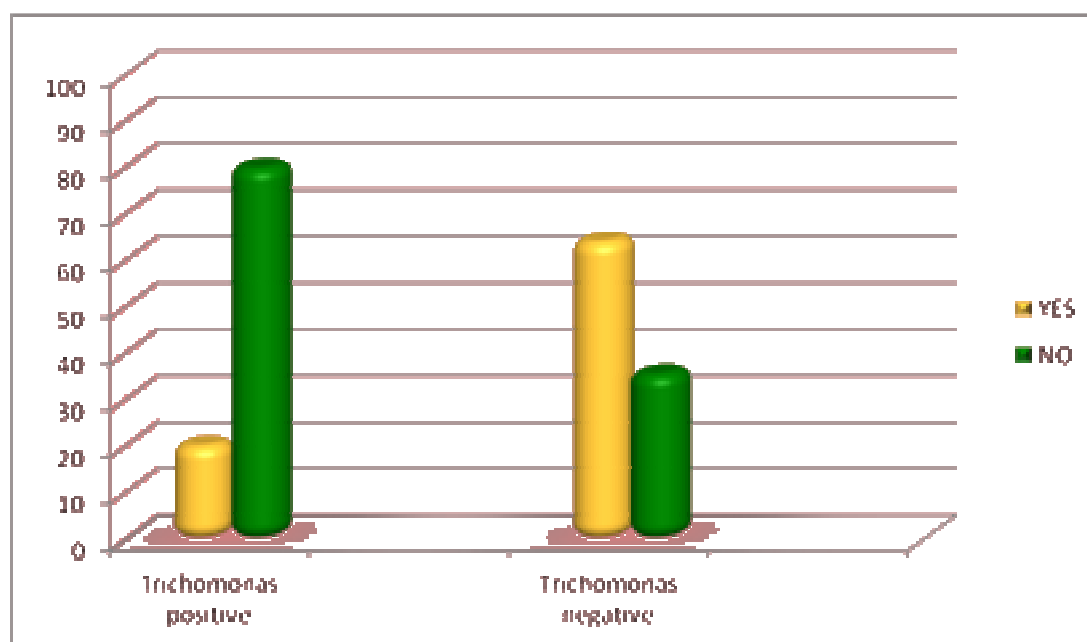


Figure-22. Relation between Mestruation and Vaginal discharge in Trichomonas Positive Patients.

4. Other symptoms .

Vaginal itching (29%) and lower abdominal pain (9.7%) was the most common symptoms seen in Trichomonas positive women followed by dysuria which is seen in 3.2% women .

Table-25: Other Symptoms in Trichomoniasis Patients.

| | Others symptoms | Patients | | | |
|-----|--------------------------------------|-------------------|------|--------------------|----|
| | | Symptomatic group | | Asymptomatic group | |
| | | Trichomonas | | Trichomonas | |
| | | Positive | | Positive | |
| | | N | % | N | % |
| 1 | Vulval itching | 9 | 29.0 | 0 | .0 |
| 2 | Dysuria | 0 | .0 | 0 | .0 |
| 3 | Lower abdominal pain | 3 | 9.7 | 0 | .0 |
| 4 | Dyspareunia | 0 | .0 | 0 | .0 |
| 5 | Post coital bleeding | 0 | .0 | 0 | .0 |
| 7 | Ulcer | 0 | .0 | 0 | .0 |
| 8 | Growth/swelling | 1 | 3.2 | 0 | .0 |
| 1,2 | Vulval itching, Dysuria | 1 | 3.2 | 0 | .0 |
| 1,3 | Vulval itching, LAP | 7 | 22.6 | 0 | .0 |
| 1,5 | Vulval itching, Post coital bleeding | 0 | .0 | 0 | .0 |
| 1,7 | Vulval itching, Ulcer | 0 | .0 | 0 | .0 |
| 2,3 | Dysuria, Lower abdominal pain | 2 | 6.5 | 0 | .0 |

| | Others symptoms | Patients | | | |
|-------|-------------------------------------------------------------|-------------------|--------------|--------------------|--------------|
| | | Symptomatic group | | Asymptomatic group | |
| | | Trichomonas | | Trichomonas | |
| | | Positive | | Positive | |
| | | N | % | N | % |
| 2,5 | Dysuria, Post coital bleeding | 0 | .0 | 0 | .0 |
| 1,3,5 | Vulval itching, Lower abdominal pain, Post coital bleeding, | 0 | .0 | 0 | .0 |
| 6 | None | 8 | 25.8 | 9 | 100.0 |
| | Total | 31 | 100.0 | 9 | 100.0 |

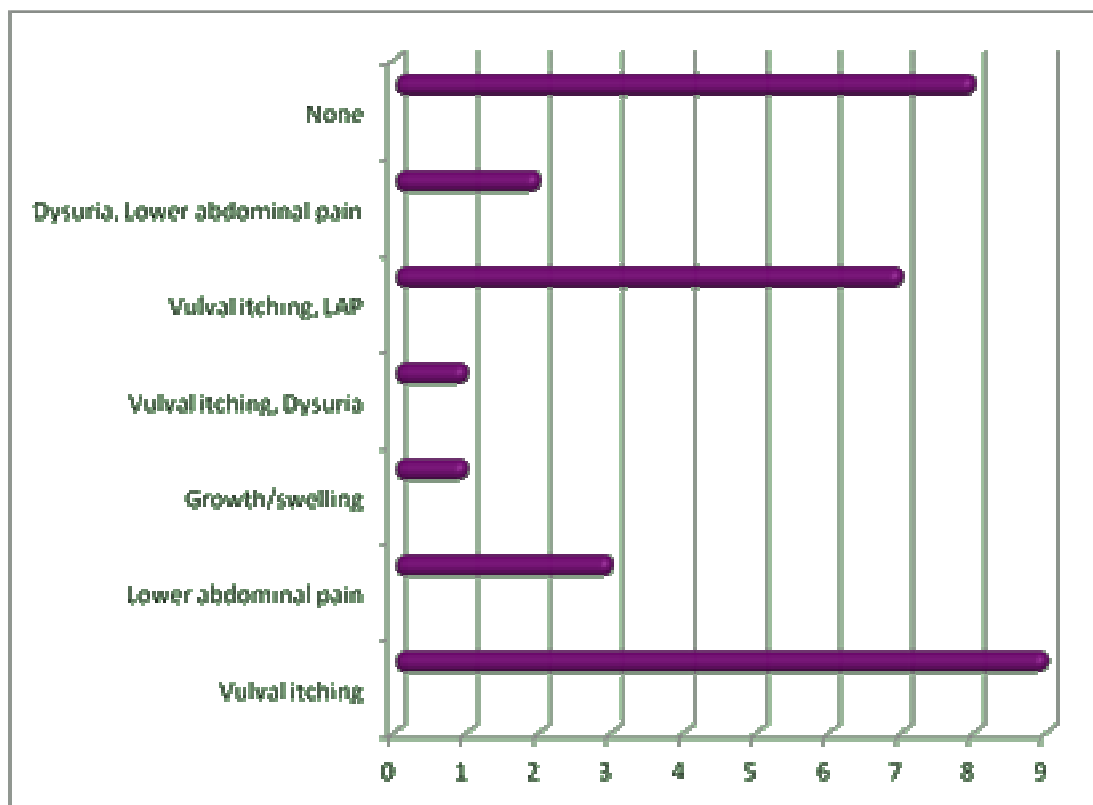


Figure-23. Other symptoms seen in Trichomonas Positive women in Symptomatic group.

5. Vulvovaginal Examination

About 12.9% women of Trichomoniasis had erythema of vulva and vagina which is significant when compared to only 2.7% of women in negative patients. About 90.3% women in Trichomonas positive cases in symptomatic group and 100% of women in asymptomatic group had vaginal discharge, which is not significant when compared to 89% in negative patients ($p > 0.05$).

Table 26. Vulvovaginal examination in Trichomoniasis Patients.

| Vulvovaginal Examination | | Patients | | | |
|--------------------------|----------|-------------------|--------|--------------------|-------|
| | | Symptomatic Group | | Asymptomatic Group | |
| | | Trichomonas | | Trichomonas | |
| | | Positive | | Positive | |
| | | N | % | N | % |
| Vulvar examination | Normal | 27 | 87.09% | 9 | 100.0 |
| | Erythema | 4 | 12.9% | 0 | .0 |
| | Growth | 0 | .0 | 0 | .0 |
| | Ulcer | 0 | .0 | 0 | .0 |
| Genital ulcers | Present | 1 | 3.2 | 0 | .0 |
| | Absent | 30 | 96.8 | 9 | 100.0 |
| Vaginal discharge | Present | 28 | 90.3 | 9 | 100.0 |
| | Absent | 3 | 9.7 | 0 | .0 |
| | Total | 31 | 100.0 | 9 | 100.0 |

6. Vaginal Discharge characteristics in Trichomonas positive patients.

Most of the women (48.4%) with Trichomoniasis in symptomatic group had moderate to profuse whitish discharge (58.1%) and 64.5% women had foul smelling discharge. Whereas in asymptomatic Trichomoniasis patients the vaginal discharge was moderate, odourless and mucoid in nature. The Typical frothy discharge was seen only in 58% of women in symptomatic group and in only two (22.2%) patients of asymptomatic patients. Purulent discharge was seen in 38% and 33% of Trichomonas positive women in symptomatic and asymptomatic women respectively.

Table 27. Vaginal Discharge characteristics in Trichomonas Positive Patients.

| Vaginal discharge | | Patients | | | |
|-------------------|---------------|-------------------|------|--------------------|------|
| | | Symptomatic Group | | Asymptomatic Group | |
| | | Trichomonas | | Trichomonas | |
| | | Positive | | Positive | |
| | | N | % | N | % |
| Discharge amount | Scanty | 3 | 9.7 | 2 | 22.2 |
| | Moderate | 15 | 48.4 | 5 | 55.6 |
| | Profuse | 13 | 41.9 | 2 | 22.2 |
| Discharge odour | Odourless | 9 | 29.0 | 6 | 66.7 |
| | Foul smelling | 20 | 64.5 | 2 | 22.2 |
| | Fishy | 2 | 6.5 | 1 | 11.1 |

| Vaginal discharge | | Patients | | | |
|--------------------------|-------------------|--------------------------|----------|---------------------------|----------|
| | | Symptomatic Group | | Asymptomatic Group | |
| | | Trichomonasis | | Trichomonasis | |
| | | Positive | | Positive | |
| | | N | % | N | % |
| Discharge consistency | Curdy | 0 | .0 | 0 | .0 |
| | Flocculent | 1 | 3.2 | 1 | 11.1 |
| | Thick homogeneous | 1 | 3.2 | 0 | .0 |
| | Frothy | 18 | 58.1 | 2 | 22.2 |
| | Watery | 5 | 16.1 | 2 | 22.2 |
| | Mucoid | 6 | 19.4 | 4 | 44.4 |
| Discharge colour | White | 18 | 58.1 | 6 | 66.7 |
| | Greyish | 1 | 3.2 | 0 | .0 |
| | Purulent | 12 | 38.7 | 3 | 33.3 |
| | Serosanguinous | 0 | .0 | 0 | .0 |
| | Total | 31 | 100.0 | 9 | 100.0 |

C. Investigations and Diagnosis.

1. Wet mount

The Wet mount Preparation using normal saline had low sensitivity and high specificity. Wet mount was positive in 67.74% of symptomatic group and 55.5% of asymptomatic group. Even though Wet mount failed to identify 32.25% of infection in symptomatic group and 35% of asymptomatic Trichomoniasis patients respectively. (p value is >0.05 (Not significant), χ^2 test = 0.455, Fisher exact test >0.05).

Table-28. Sensitivity pattern of Wet mount.

| Wet mount | Trichomonas Patients | | | | | |
|-----------|----------------------|------|----------------|------|-------|-------|
| | Symptomatic | | As symptomatic | | Total | |
| | N | % | N | % | N | % |
| Positive | 21 | 80.8 | 5 | 19.2 | 26 | 100.0 |
| Negative | 10 | 71.4 | 4 | 28.6 | 14 | 100.0 |
| Total | 31 | 77.5 | 9 | 22.5 | 40 | 100.0 |

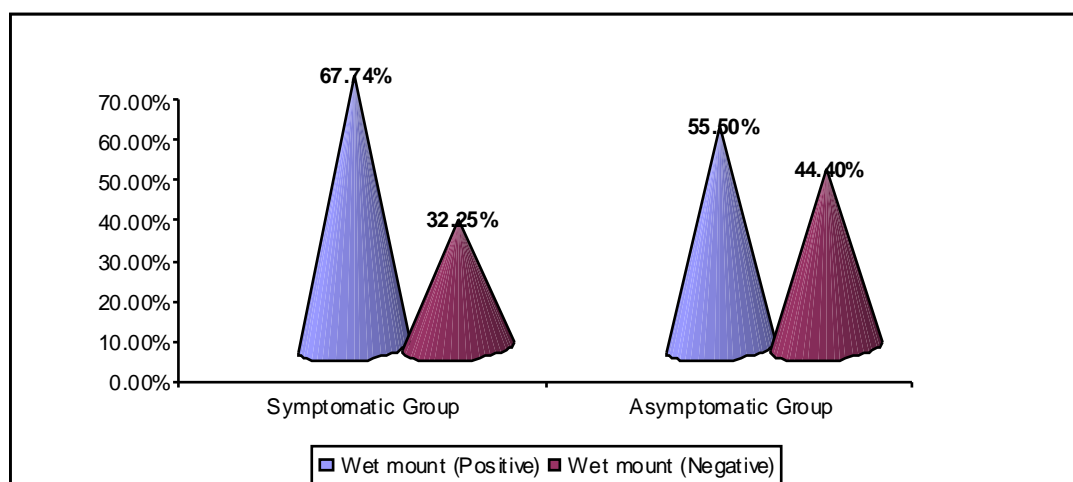


Figure 24. Percentage of Wet mount Positivity in the Study.

2. Culture:

Culture done using Diamond's liquid media had sensitivity and specificity of 100%, PPV (100%), NPV(100%) when observed with in 3 days of inoculation. Culture examined on 7th day had Sensitivity (77.50%), Specificity (100%), PPV(100%) and NPV(98.5%).

Table-29. Culture: Using Diamond's medium

| | | Trichomonas Positive Patients | | | | | |
|----------------------------|---------|-------------------------------|--------|--------------------|-------|-------|-------|
| | | Symptomatic Group | | Asymptomatic Group | | Total | |
| | | N | % | N | % | N | % |
| Culture on 2nd and 3rd day | Present | 31 | 100% | 9 | 23.1 | 40 | 100.0 |
| | Absent | 0 | 0 | 0 | .0 | 0 | 0 |
| Culture on 5th day | Present | 30 | 96.77% | 9 | 23.1 | 39 | 100.0 |
| | Absent | 1 | 3.22% | 0 | 100.0 | 1 | 100.0 |
| Culture on 7th day | Present | 24 | 77.41% | 9 | 29.0 | 31 | 100.0 |
| | Absent | 6 | 19.35% | 0 | .0 | 6 | 100.0 |
| | Total | 31 | 77.5 | 9 | 22.5 | 40 | 100.0 |

3. Wet mount method compared with culture:

Wet mount method had low sensitivity in diagnosing both symptomatic and asymptomatic patients when compared to culture. (p value is < 0.05 , Fischer exact test <0.05 , chisquare test=161.95 in symptomatic group which is significant and the p value is <0.05 , Fisher exact test <0.05 , chisquare test =136.6 in asymptomatic group and is significant)

Table-30: Comparision of Wet mount and Culture in Diagnosis of Trichomonas vaginalis.

| Wetmount | Culture in symptomatic Group | | Culture in asymptomatic Group | |
|-------------------|------------------------------|------------|-------------------------------|------------|
| | Positive | Negative | Positive | Negative |
| Wetmount Positive | 21 (67.74%) | 0 | 5 (55.55%) | 0 |
| Wetmount Negative | 10 (32.25%) | 219 | 4 (44.44%) | 241 |
| Total | 31 (100%) | 219 | 9 (100%) | 241 |

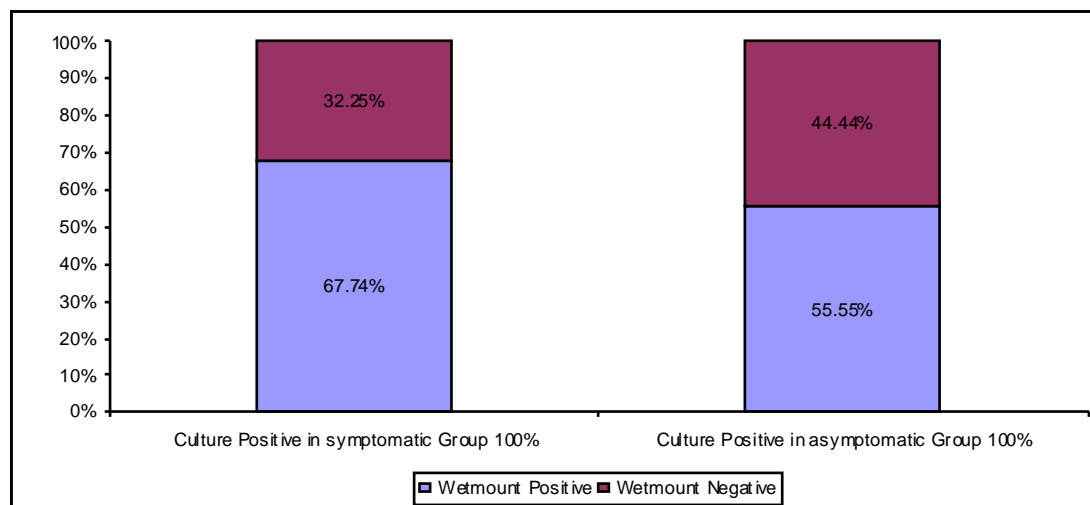


Figure-25. Percentage of Wet mount and Culture Positivity.

4. Other Investigative Methods Compared with Culture:

Culture had 100% sensitivity and specificity, and considered as gold standard procedure. However in our study the sensitivity of culture reduced from 100% to 77.5% done on 3rd and 7th day respectively. (Low sensitivity is probably due to growth inhibition by bacterial and/or candidal contamination of the medium).

Wet mount method had low sensitivity (65%) but high specificity (100%), high PPV (100%), NPV (93.75%) and LR (74.75).

The pH > 4.5 had sensitivity of 82.5% and specificity of 79.1% in diagnosing Trichomoniasis.

Whiff test had sensitivity of 60% (which was comparable to wet mount) and specificity of 82%.

Grams staining for pus cells had 17.5% sensitivity and high specificity of 98.7%.

PAP smear had low sensitivity (12.5%) and high specificity in diagnosis of Trichomoniasis. Most of the Trichomonas positive patients had inflammatory PAP smear.

Table-31. Various Investigative Procedures in Diagnosis of Trichomoniasis and their sensitivities and specificities.

| Tests | Sensitivity | Specificity | PPV | NPV | LR |
|------------------------|-------------|-------------|-------|-------|-------|
| pH (>4.5) | 82.5 | 79.1 | 25.6 | 98.1 | 3.95 |
| Whiff test | 60.0 | 82.4 | 22.9 | 96.0 | 3.41 |
| Wet mount | 67.7 | 100.0 | 86.7 | 93.75 | 74.75 |
| Gram stain (Pus cells) | 17.5 | 98.7 | 53.9 | 93.3 | 13.4 |
| PAP smear (TV +ve) | 12.5 | 100.0 | 100.0 | 94.5 | -* |

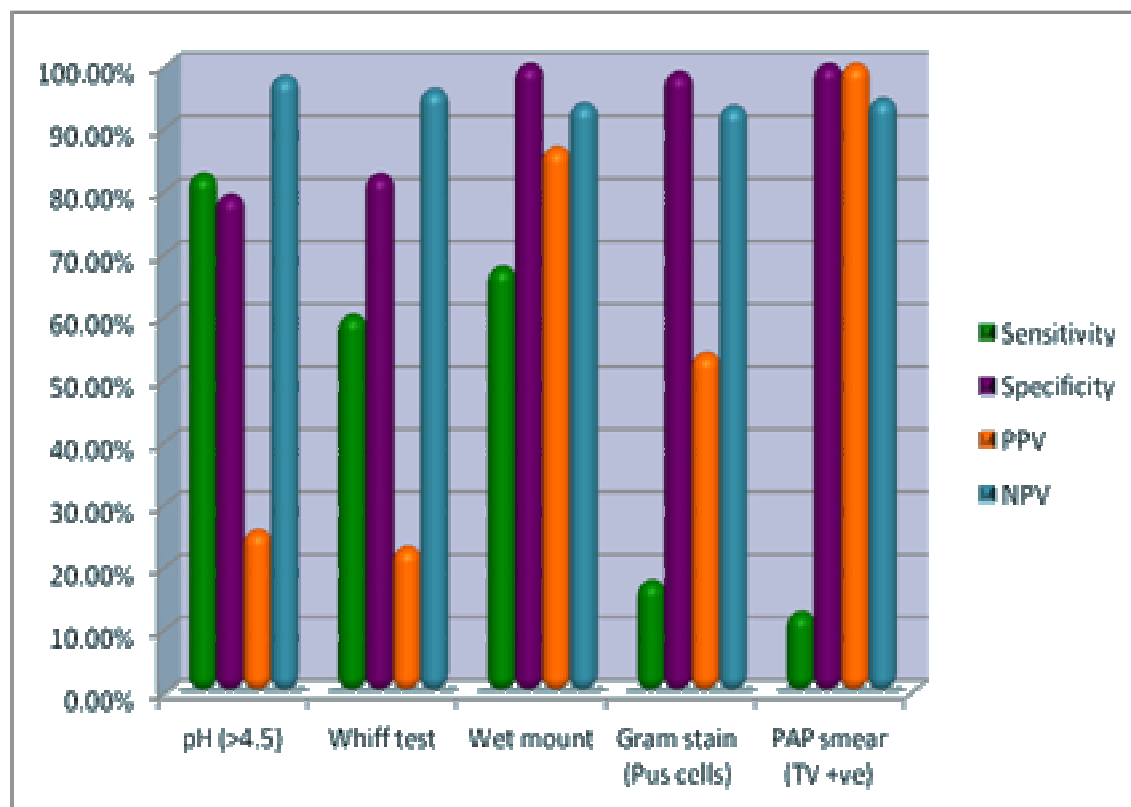


Figure 26: Sensitivity pattern of other Investigative Methods.

D. Associated STD'S

Majority of Trichomoniasis patients were coinfectd with Bacterial Vaginosi (64.3%) in symptomatic group and (35.7%) in asymptomatic group. (The p value is 0.285) followed by Mucopurulent cervicitis (p value is 0.82) and Candidiasis (p value is 0.999) which is statistically not significant when compared to Trichomonas negative patients.

Table-32. Associated STD'S with Trichomoniasis.

| | | Trichomoniasis | | | | | |
|---------------------|----------|----------------|-------|---------------|-------|-------|-------|
| | | Symptomatic | | As ymptomatic | | Total | |
| | | N | % | N | % | N | % |
| Coexisting STI | Yes | 14 | 70.0 | 6 | 30.0 | 20 | 100.0 |
| | No | 17 | 85.0 | 3 | 15.0 | 20 | 100.0 |
| Bacterial vaginosis | Positive | 9 | 64.3 | 5 | 35.7 | 14 | 100.0 |
| | Negative | 22 | 84.6 | 4 | 15.4 | 26 | 100.0 |
| Cervicitis | Positive | 7 | 87.5 | 1 | 12.5 | 8 | 100.0 |
| | Negative | 24 | 75.0 | 8 | 25.0 | 32 | 100.0 |
| Candidias is | Positive | 2 | 100.0 | 0 | .0 | 2 | 100.0 |
| | Negative | 29 | 76.3 | 9 | 23.7 | 38 | 100.0 |
| Herpes | Positive | 1 | 100.0 | 0 | .0 | 1 | 100.0 |
| | Negative | 30 | 76.9 | 9 | 23.1 | 39 | 100.0 |
| HIV infection | Positive | 0 | .0 | 1 | 100.0 | 1 | 100.0 |
| | Negative | 31 | 79.5 | 8 | 20.5 | 39 | 100.0 |
| | Total | 31 | 77.5 | 9 | 22.5 | 40 | 100.0 |

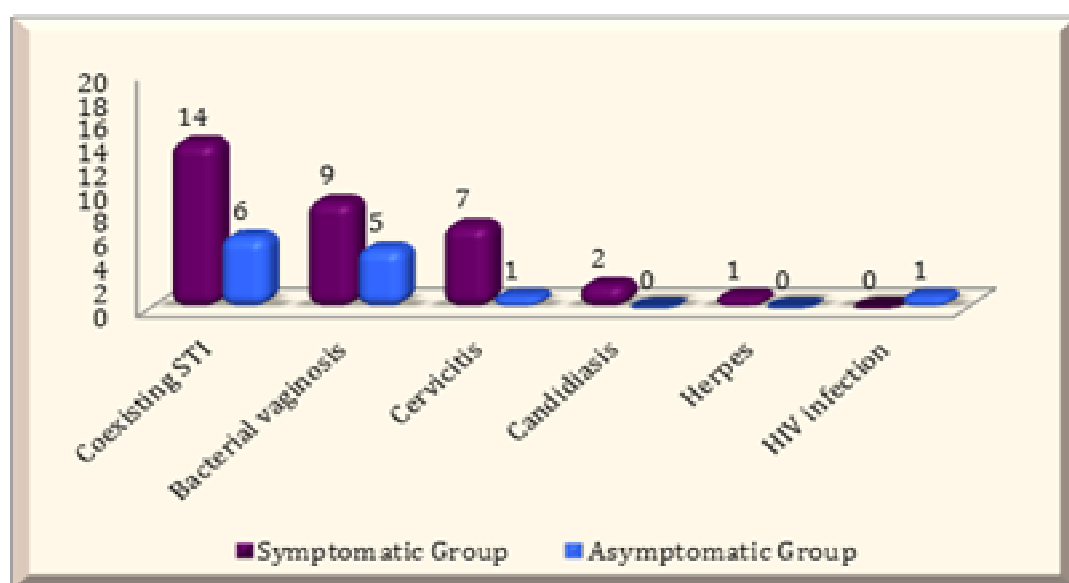


Figure 27: Coinfections seen in Trichomonas Positive Patients.

E. Diagnosis of Study Group:

The most common STDs seen in our study group was Bacterial Vaginosis (21.6%) followed by Mucopurulent cervicitis (16%) and Candidiasis (12.8%).

Table-33: Prevalence of STI in Study Group

| Disease | Symptomatic group N=250 | Asymptomatic group N=250 |
|-------------------------|----------------------------|-----------------------------|
| 1.Trichomonas vaginalis | 31 (12.4%) | 9 (3.6%) |
| 2. Bacterial vaginosis | 54 (21.6%) | 27 (10.8%) |
| 3. Candidiasis | 32 (12.8%) | 29 (11.6%) |
| 4. MPC | 40 (16%) | 26 (10.4) |
| 5. NV | 34 (13.6%) | 141 (56.4%) |
| 6. Physiological | 58 (23.2%) | 13 (5.2%) |
| 7. HIV | 3 (1.2%) | 6 (2.4%) |
| 8. Herpes | 6 (2.4%) | 0 |
| 9. Carcinoma cervix | 5 (2%) | 0 |
| 10. Genital scabies | 1 (0.4%) | 0 |
| 11. Cervical growth | 1 (0.4%) | 0 |
| 12. Wart | 2 (0.8%) | 0 |
| 13. Others | 9 (3.6%) | 8 (3.2%) |
| Total | 250 | 250 |

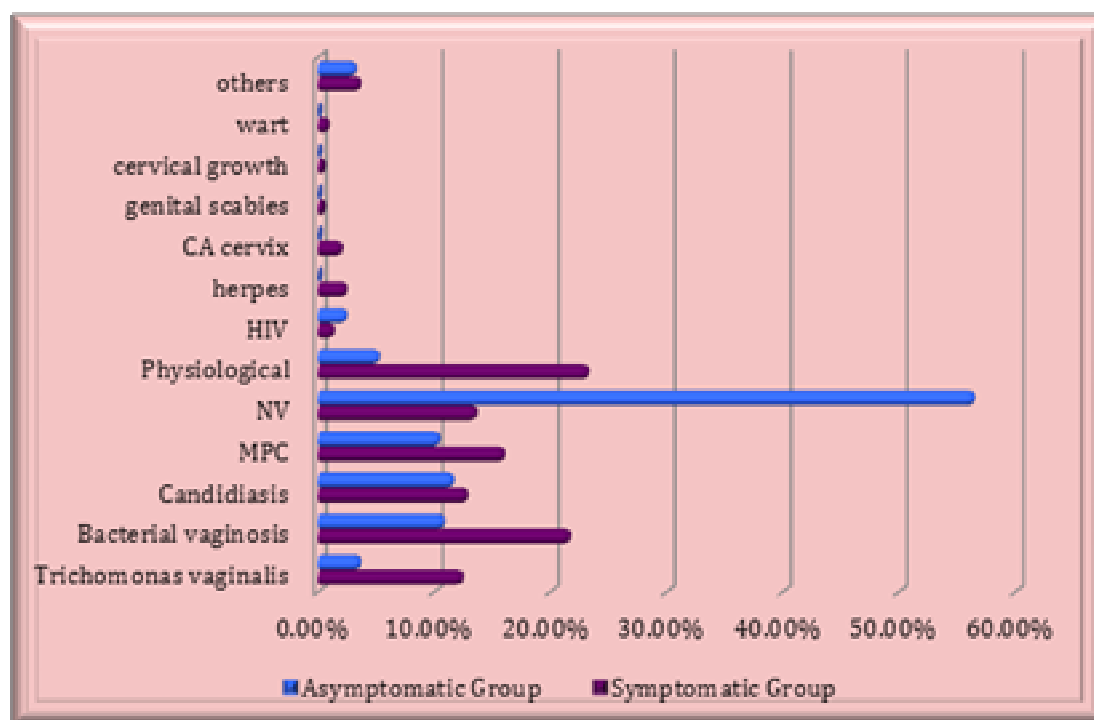


Figure 28: Diagnosis of Trichomonas negative cases in Study Group.

Treatment and Follow up: All the Trichomonas positive patients were treated with Tab Secnidazole 2gm single dose stat and reviewed after 7 days, none of the patients had recurrence in our study.

Partner Treatment: 28partners of 40women with Trichomoniasis was evaluated and all the partners treated with epidose (Tab.Secnidazole 2gm single dose stat).

DISCUSSION

The prevalence of *Trichomonas vaginalis* infection varies considerably in female population around worldwide, depending on the population studied and techniques employed in the diagnosis. Ranging from 5-74%, the highest rates reported among STI clinic attendees and other high-risk population.^[12,27]

In our study a total of 8% (40 of 500 women) of women had Trichomoniasis, ie. 31 (12.4%) women in the symptomatic group and 9 (3.6%) women in the asymptomatic group had *T.vaginalis* infection by culture. The prevalence observed in our study was comparable to study done by Mahmoud et al, which was hospital based study done at Egypt with a sample size of 450, of which 290 were symptomatic and 160 were asymptomatic. The prevalence of Trichomoniasis in their study was 7.7% of which 30 (10.34%) were symptomatic cases and 3.1% were asymptomatic group.^[94]

In the study by Cevahir et al, which included 310 symptomatic patients, the prevalence rate of Trichomoniasis was found to be 12.9%. This is comparable to our study (12.4%) in symptomatic group.^[95]

Another study done by Chakaraborthy et al^[96] on both symptomatic and asymptomatic patients from rural and urban areas (102 cases) at Surat, India, showed total prevalence of (34.4%)

Trichomoniasis which is significantly higher when compared to prevalence of our study (8%).

DEMOGRAPHIC CHARACTERS

AGE

The prevalence of *Trichomonas vaginalis* has been shown to increase with age unlike in Chlamydia and Gonorrhoea.^[12] The increased prevalence of Trichomonal infection in older women suggests longer duration of infectiousness and the predominant asymptomatic nature of infection.^[2] This was evident from our study as the mean age at presentation for women with *T.vaginalis* infection was 32 ± 7 years in symptomatic and 34 ± 9 yrs in asymptomatic group. This was comparable with the population based study from Vanuatu, Australia by Fotinatos et al,^[97] and study done by Haythan et al^[98] who reported a mean age of 36.6 years. However, study by Dahab et al^[99] reported a lower mean age at presentation ie. 20 to 25 years. This probably reflects early onset of sexual activity in the high-risk population.

RESIDENCE

Majority of women in our study were residing at urban areas (67%) and about 33% women are from rural areas.

MARITAL HISTORY

Most of the women in symptomatic group (74.2%) and (62.5%) of women in asymptomatic group were married and 25% were single in

both symptomatic and asymptomatic patients. The risk of infection is more in women living single (16.1%) as compared to Trichomonas negative single women (5.5%). Klinger et al^[58] observed that compared with married women, the risk of Trichomoniasis was significantly increased among women who are separated, which is comparable to our study, though Trichomoniasis observed in majority of married women, the prevalence in separated women found to be more (16.1%) compared to Trichomoniasis negative cases in their study.

SOCIOECONOMIC STATUS

About 54.8% of women with Trichomoniasis in our study belonged to lower (class V) socioeconomic status when compared to upper lower (class IV) in Trichomonas negative patients.

EDUCATION STATUS

Majority of women with Trichomoniasis in our study had low education status till primary standard. About 48.7% women studied less than 5th standard and 35.9% were till 6-12th standard whereas most of the Trichomonas negative cases had (52.2%) education till 6-12th standard. However in the study conducted by Haythm .M et al showed illiterates (61.8%) as majority.^[98]

HIGH RISK AND BEHAVIOURAL CHARACTERS

Contraception

Most of the Trichomonas positive women and Trichomonas negative women in our study were Tubectomised. However 10.3% of Trichomonas positive women give history of atleast one episode of abortion when compared to only 2% of Trichomonas negative women with history of abortion. which is significant.

Past H/o PID/infertility/venereal disease

As many as 6 women in symptomatic group and 2 women in asymptomatic group gave history of previous venereal disease in the form of vaginal discharge and two of the patients in symptomatic group had history of PID, which is not significant when compared to Trichomonas negative cases.

Substance abuse

Only two women of Trichomonas positive cases in asymptomatic group had history of alcohol abuse and is not significant and none of the women in our study indulged in smoking.

Pre and extramarital contact

Majority of Trichomonas positive cases (45.2%) in symptomatic group and 50% of women in asymptomatic group had pre and extramarital contact. When compared to 8.5% of women in Trichomonas negative group which is statistically significant. About 7 women of the

Trichomoniasis in our study group were indulged in prostitution as compared to 4 women in Trichomonas negative women.

Husband having extramarital contact

About 22.6% of Trichomonas positive patients in symptomatic group gave history of husband having extramarital contact, when compared to only 1.25% of women in negative cases, which is statistically significant.

Symptoms in partner

The history suggestive of Urethritis and Balanitis was present in 7.7% of men in Trichomonas positive cases and 5.1% of men had history of dysuria and pruritus.

Significant risk factors associated with T.vaginalis infection in our study were low socioeconomic status, a history of pre/extramarital sexual contact in the women, husband having extramarital contact, a history of symptomatic partner in the form of dysuria and urethral discharge that suggestive of Trichomoniasis in men.

Kaur et al^[26] in their study in North India to assess the prevalence of Trichomonas vaginalis infection in symptomatic women as well as in women with carcinoma cervix and HIV infection observed that being a housewife, belonging to the middle socioeconomic status and non-use of contraception were significantly associated with Trichomoniasis. Klinger et al,^[58] in their study to determine the predictors of T.vaginalis

infection in women in Moshi, Tanzania, observed that having a partner with *T.vaginalis* was the strongest risk factor in women. Other risk factors observed were daily alcohol consumption, being separated, having a partner who had children with other women.

Sutton et al^[57] reported that factors associated with increased likelihood of *T.vaginalis* infection in women in the United States were belonging to non-Hispanic black race, a greater number of lifetime sex partners, increasing age, lower education level and poverty.

Clinical characteristics

Trichomonas vaginalis is known to cause persistence of untreated infection.^[100] In our study the mean duration of onset of symptoms in patients with Trichomoniasis is 30 years and the mean duration of vaginal discharge in patients with Trichomoniasis was 4.8 months (149 days).

Signs of infection in symptomatic women include vaginal discharge (92.5%), frothy foul smelling discharge in (50%) and erythema in (10%) women.^[8] The characteristic features of the infection are present in only about 40% to 50% of patients.^[54] Women with *T.vaginalis* may have abdominal pain due to salpingitis or endometritis and postcoital bleeding due to cervicitis.^[101]

The signs and symptoms associated with the infection have a relatively low positive predictive values for Trichomoniasis because of

the frequent occurrence of these signs and symptoms among women with other infections.^[104] Fouts et al ^[73] in their study on women attending a STI clinic in Georgia demonstrated that if the clinical features alone were used to diagnose Trichomoniasis, 88% of the infected women would be missed and 29% would be falsely indicated as having infection.

In our study women with Trichomoniasis presenting with vaginal discharge, vulval itching and lower abdominal pain was the most frequently reported symptom, (sensitivity 81.5 %), followed by dysuria. However, the reported symptoms had low positive predictive values for Trichomoniasis. Women with concurrent Trichomoniasis and other infections were more symptomatic with higher frequency of reported itching and lower abdominal pain as compared to those with Trichomoniasis alone, though not statistically significant.

Among the clinical signs in women with Trichomoniasis, having a profuse vaginal discharge, malodorous discharge, frothy discharge and mucopurulent or purulent discharge were significantly associated with Trichomoniasis. Frothy discharge was observed in only 58% women in our study, but was the most specific sign with a positive predictive value of 100%. Mucopurulent or purulent discharge was observed in 38.7% women. Colpitis macularis is a specific clinical sign for Trichomonas infection but is detected with reliability only by colposcopy and rarely

by using routine examination.^[54] Colpitis macularis was not observed in any of the women by naked eye examination in our study as colposcopy was not done in our study.

Wolner-Hanssen et al,^[102] in their study on clinical manifestations of Trichomoniasis done on women attending a STI clinic observed that the frothy discharge was found in only 8% of women with Trichomoniasis and had a specificity of 99% and the PPV of 62%; colpitis macularis was a highly specific sign (99%) and had a high PPV (90%), but was seen without a colposcope in only 2 of the 52 women who had the finding on colposcopy. Purulent vaginal discharge in their study had a specificity of 76% and a PPV of only 30%.

INVESTIGATION

Considering culture of *Trichomonas vaginalis* as the “gold standard” the sensitivity and specificity of microscopic and cytologic examination were assessed

Whiff test and pH testing are recommended in the evaluation of vaginal discharge and can be used as screening methods.^[103,104]

The pH testing was reported to be a highly sensitive but less specific screening tool for diagnosis of Trichomoniasis.^[104] A similar finding was observed in our study, where pH of more than 4.5 had 82.5% sensitivity, and specificity of 79.1%..

This was comparable to study done by Plourd et al^[105] reported a lower sensitivity of 70% for pH more than 4.5 in the diagnosis of Trichomoniasis. And Whiff test had low sensitivity(60%) and specificity(82.4%), in the diagnosis of Trichomoniasis. Whiff test positivity was significantly higher in the mixed infection group as compared to Trichomoniasis alone because of the co-occurrence of bacterial vaginosis.

PAP smear examination had low sensitive (32.5%) and high (100%) specificity in diagnosing Trichomoniasis. Pus cells in Grams stain had low sensitivity (17.5%) and high specificity of (98.7%).

WET MOUNT

Wet mount using normal saline for demonstration of Trichomoniasis had low sensitivity (65%) and high specificity (100%), PPV (86.7%), NPV (97%) and LR (74.75%). Wet mount was positive in 21 patients and negative in 10 patients in symptomatic group and positive in 5 and negative in 4 patients in asymptomatic group. These wetmount negative patient were positive by culture and none of the wet mount positive sample was negative by culture. (p value is <0.05 and is significant in both symptomatic and asymptomatic patients).

Culture of *Trichomonas vaginalis* using Diamonds medium

Culture proved diagnosis in all 40 cases of Trichomoniasis with 100% sensitivity and specificity. The culture had 100% sensitivity and

specificity if examined with in 3days of inoculation. As compared to 5th day and 7th day where the sensitivity level decreased to 97.5% and 77.5% respectively, however the specificity remained 100%.

In a study done by Mohmoud et al^[94] (450 cases) culture identified 35 (100%) of cases whereas Wetmount and PAP smear diagnosed 34.2% and 60% of patients respectively which is similar to our study.

Another study done by Cevahir et al^[95] showed that culture was positive in all 40 cases of Trichomoniasis (100%) whereas Wetmount was positive only 20 (50%) of cases.

COINFECTION

Majority of Trichomoniasis patients were coinfectd with Bacterial Vaginosis (64.3%) in symptomatic group and 35.7% in asymptomatic group with a pvalue of 0.285 which is not statistically significant. The Mucopurulent cervicitis (p value is 0.821) and Candidiasis (p value is 0.999) were not statistically significant in our study.

Table-34 Comparision between Symptomatic and Asymptomatic Trichomoniasis Positive Patients

| | Symptomatic patients n=31 | Asymptomatic patients n=9 |
|--------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------|
| 1.Demographic factors and high risk behaviours: Is almost similar in both the group | | |
| a) Age | Mean age is 32 | Mean age is 34 |
| b) Residence | Urban women (67%) | Urban women (70%) |
| c) Socioeconomic status | Lower class | Lower class |
| d) Education status | Upto higher primary | Lower primary |
| e) Marital status | Married women (74.2%) | Married women (62.5%) |
| f) Pre/Extra marital contact | Present in 45% | Present in 50% |
| g) Promiscuity of partner | Present in 62% | None |
| 2.Clinical features: | | |
| a. Vaginal discharge | Moderate to profuse foul smelling (64.5%), frothy (58%) purulent discharge. | Scanty to moderate, odourless discharge. Foul smelling in (22.2%), frothy (22%), mucoid discharge |
| b.Vaginal erythema | Seen in 12% of women | None had erythema |
| 3.Investigations : | | |
| a) Wet mount Positive | Positive in 21 patients (67.7%) | Positive in 5 patients (55.5%) |
| Negative | Negative in 10 patients (32.25%) | Negative in 4 patients (44.4%) |
| b) Culture | Positive in all 31 patients (100%) | Positive in all 9 patients (100%) |
| 4. Prevalence of Trichomoniasis in our study: | | |
| Prevalence | 12.4% | 3.6% |
| 5. Associated STI's | | |
| Associated STI's | 70% associated with coinfections, most common being Bacterial vaginosis. | 30% associated with coinfection, most common being Bacterial vaginosis. |

SUMMARY

- 1) The total prevalence of Trichomoniasis in our study is 8%. About 12.4% (31 patients) in symptomatic group and 3.6% (9 patients) in asymptomatic group.
- 2) Isolation of *Trichomonas vaginalis* is best done by Culture in Diamond's media on 3rd day of inoculation.
- 3) Sensitivity and specificity of Culture is 100% in our study. The sensitivity of Wet mount is 67.7% in symptomatic group and 44.4% in asymptomatic group and specificity is 100% in both the groups. Wet mount was negative in 14 patients (10 in symptomatic, 4 in asymptomatic group), these wet mount negative sample were positive by culture. Thus culture is considered as gold standard investigation for Trichomoniasis.
- 4) Other Investigative procedures:
 - a. The pH > 4.5 had sensitivity of 82.5% and specificity of 79.1% in diagnosing Trichomoniasis.
 - b. Whiff test had sensitivity of 60% (which was comparable to wet mount) and specificity of 82%.
 - c. PAP smear had low sensitivity (12.5%) and high specificity in diagnosis of Trichomoniasis.

- d. The Gram's staining for pus cells had 17.5% sensitivity and 98.7% specificity.
- 5) Demographic and socio-economic factors of Trichomoniasis patients derived from our study are:
- a. Trichomoniasis seen commonly in age group of 30 ± 4 years both in symptomatic and asymptomatic patients.
 - b. Most of the Trichomonas positive women in our study were residing in urban areas and belongs to lower (class V) socioeconomic status and had low educational status.
- 6) Clinical characteristics of Trichomonas positive patients derived from our study are:
- a. The mean duration of onset of symptoms is 30 years and mean duration of vaginal discharge was 4.8 months (149 days) in symptomatic women.
 - b. The most common signs and symptoms of Trichomoniasis women in symptomatic group are vaginal discharge (92.5%), frothy foul smelling discharge (58%). The other common symptoms seen along with vaginal discharge are vulval itching, LAP and dysuria. The characteristic features of the infection are seen only in about 40% to 50% of patients.

- c. The discharge characteristics commonly seen in asymptomatic patients are scanty to moderate, odourless, mucoid discharge.
- 7) Risk factors associated with Trichomoniasis in our study are:
- a. Women with low socioeconomic status and residing in urban areas.
 - b. Women who were single and separated from their husband.
 - c. Women with multiple sexual partner and
 - d. Women whose husband having extramarital contact.
- 8) The most common coinfection with Trichomoniasis in our study is Bacterial Vaginosis and Cervicitis.
- 9) There was no association between Trichomoniasis and HIV in our study. (out of 9 positive HIV cases in the study group ,one patient in asymptomatic group was dignosed as Trichomonis is)
- 10) There was also no association between Trichomoniasis and cervical cancer in our study. (In the age group of 40-55yrs, 5 patients in symptomatic group with cervical cancer were negative for *Trichomonas vaginalis*).

CONCLUSION

- ❖ The Prevalence of Trichomoniasis in Symptomatic Group is 12.4%.
- ❖ The Prevalence of Trichomoniasis in Asymptomatic Group is 3.6%.
- ❖ Culture is the gold standard investigation in the diagnosis of Trichomoniasis with sensitivity and specificity of 100%.
- ❖ Wet mount had low sensitivity and high specificity in our study. Wet mount failed to identify 14 cases which was positive by culture (p value is <0.05).
- ❖ Routine use of Wet mount solely for the diagnosis of Trichomoniasis leads to false negative results, hence culture must be routinely done whenever Wetmount is negative and Trichomoniasis is strongly suspected.
- ❖ Clinical characteristics of symptomatic patients are moderate to profuse foul smelling frothy mucopurulent vaginal discharge, when compared to scanty, moderate odourless mucoid discharge of asymptomatic patients.
- ❖ Risk factors associated with Trichomoniasis are women with low socioeconomic status, who are single, separated from their husband, having multiple sexual partners and women whose husband has extramarital contact.

REFERENCE

- 1) World Health Organization. Global Prevalence and Incidence of Selected Curable Sexually Transmitted Infections. Geneva: WHO. 2001.
- 2) Verteramo R, Calzolari E, Degener A M, Masciangelo R, Patella A. *Trichomonas vaginalis* infection: Risk indicators among women attending for routine gynecologic examination. *J Obstet Gynaecol Res* .2008; 34: 233-37.
- 3) Wasserheit J N. Epidemiological synergy. Interrelationships between human immunodeficiency virus infection and other sexually transmitted diseases. *Sex Transm Dis*. 1992; 19: 61.
- 4) Buve A, Weiss H A, Laga M, et al. The epidemiology of trichomoniasis in women in four African cities. *AIDS*. 2001; 15(Suppl 4): S89.
- 5) Price M A, Miller W C, Kaydos-Daniels S C, et al. Trichomoniasis in men and HIV infection: Data from 2 outpatient clinics at Lilongwe Central Hospital, Malawi. *J Infect Dis*. 2004; 190: 1448.
- 6) Laga M, Nzila N, Goeman J. The interrelationship of sexually transmitted diseases and HIV infection: Implications for the control of both epidemics in Africa. *AIDS*. 1991; 5(Suppl 1): S55.

- 7) Sood S, Kapil A. An update on *Trichomonas Vaginalis*. Indian J Sex Trans Dis. 2008; 29: 7-14.
- 8) Al-Salihi FL, Curran J P, Wang J. Neonatal *Trichomonas Vaginalis*: Report of Three Cases and Review of the Literature. Pediatrics. 1974; 53: 196 -200.
- 9) Trussell R E, Plass E D. The pathogenicity and physiology of a pure culture of *Trichomonas vaginalis*. Am J Obstet Gynecol. 1940; 40: 883.
- 10) Hesseltine H C. Experimental human vaginal trichomoniasis. J Infect Dis. 1942; 71: 127.
- 11) Fichorova R N. Impact of *T.vaginalis* infection on innate immune responses and reproductive outcome. J Reprod Immunol. 2009; 83: 185-9.
- 12) Johnston V J, Mabey D. Global epidemiology and control of *Trichomonas vaginalis*. Curr Opin Infect Dis. 2008; 21: 56-64.
- 13) Kumar P, Sharma N K, Sharma U,et al. Trichomoniasis and candidiasis in consorts of female with vaginal discharge, Indian j sex Transm Dis. 1990;11:546.

- 14) Cotch M F. et al. *Trichomonas vaginalis* and trichomoniasis with low birth weight and preterm delivery. *Sex transm dis.* 1997;24:353-362.
- 15) Swygard H, Sena A C, Hobbs M M, Cohen M S. Trichomoniasis: clinical manifestations, diagnosis and management. *Sex Transm Infect.* 2004; 80: 91-95.
- 16) Quinn T C, et al. Trichomoniasis. In *Tropical and Geographic medicine* (warren KS, et al, Eds). New York, McGraw Hill. 1900:358.
- 17) Ghys P D, Diallo M O, Ettiegne-Traore V, et al. Genital ulcers associated with human immunodeficiency virus-related immunosuppression in female sex workers in Abidjan, Ivory Coast. *J Infect Dis.* 1995; 172: 1371.
- 18) Ter Meulen J, Mgaya H N, Chang-Claude J, et al. Risk factors for HIV infection in gynaecological inpatients in Dar es Salaam, Tanzania, 1988-1990. *East Afr Med J.* 1992; 69: 688.
- 19) Neinstein L, Goldenring J, Carpenter S. Nonsexual transmission of sexually transmitted diseases: An infrequent occurrence. *Pediatrics.* 1984; 74: 67-76.

- 20) McLaren L, Davis L, Healy G, James C. Isolation of *Trichomonas vaginalis* from the respiratory tract of infants with respiratory disease. *Pediatrics*. 1983; 71: 888-90.
- 21) Morency P, Dubots M J, Grerenguel G, et al. Aetiology of urethral discharge in Bangai, Central african republic. *SexTrans inf*. 2002; 77:125.
- 22) Catterall R D, Nicol C S. Is trichomonal infestation a venereal disease? *Br MedJ*. 1960;5180:1177.
- 23) Whittington M J. Epidemiology of infections with *Trichomonas vaginalis* in the light of improved diagnostic methods. *Brit J Vener Dis*. 1957;33: 80.
- 24) Fouts A C, Kraus S J. *Trichomonas vaginalis*: Reevaluation of its clinical presentation and laboratory diagnosis. *J Infect Dis*. 1980; 141: 137.
- 25) Price M A, Zimba D, Hoffman I F, et al. Addition of treatment for trichomoniasis to syndromic management of urethritis in Malawi: A randomized clinical trial. *Sex Transm Dis*. 2003; 30: 516.
- 26) Kaur S, Khurana S, Bagga R, Wanchu A, Nancy M. Trichomoniasis among women in North India: A hospital based study. *Indian J Sex Transm Dis & AIDS*. 2008; 29: 76-81.

- 27) Hobbs M M, Sena A C, Swygard H, Schwebke J R. *Trichomonas vaginalis* and Trichomoniasis. In: Holmes K K, Sparling P F, Stamm W E, Piot P, Wasserheit J N, Corey L, et al. eds. *Sexually Transmitted Diseases*. 4th edn. New York: McGraw-Hill. 2008; p. 771-94.
- 28) Petrin D, Delgaty K, Bhatt R, Garber G. Clinical and microbiological aspects of *Trichomonas vaginalis*. *Clin Microbiol Rev*. 1998; 11: 300-17.
- 29) Burgess D. *Trichomonas* infections. In: Cox FEG, Wakelin D, Gillespie S H, Despommier D, eds. *Topley & Wilson's Parasitology*. 10th edn. London: Edward Arnold (Publishers) Ltd. 2005. p. 255-65.
- 30) Pereira-Neves A, Ribeiro K C, Benchimol M. Pseudocysts in trichomonads— new insights. *Protist*. 2003; 154: 313.
- 31) Abonyi A. Examination of nonflagellate and flagellate round forms of *Trichomonas vaginalis* by transmission electron microscopy. *Appl Parasitol*. 1995; 36: 303.
- 32) Benchimol M. Trichomonads under Microscopy. *Microsc Microanal*. 2004; 10: 528.

- 33) Leher M W, Alderete J F. Resolution of six chromosomes of *Trichomonas vaginalis* and conservation of size and number among isolates. *J Parasitol.* 1999; 85: 976.
- 34) Gomez-Conde E, Mena-Lopez R, Hernandez-Jauregui P, et al. *Trichomonas vaginalis*: Chromatin and mitotic spindle during mitosis. *Exp Parasitol.* 2000; 96: 130.
- 35) Yuh Y S, Liu J Y, Shaio M F. Chromosome number of *Trichomonas vaginalis*. *J Parasitol.* 1997; 83: 551.
- 36) Carlton J M, Hirt R P, Silva J C, et al. Draft genome sequence of the sexually transmitted pathogen *Trichomonas vaginalis*. *Science.* 2007; 315: 207.
- 37) Land K M, Delgadillo-Correa M G, Tachezy J, et al. Targeted gene replacement of a ferredoxin gene in *Trichomonas vaginalis* does not lead to metronidazole resistance. *Mol Microbiol.* 2004; 51: 115.
- 38) Vanacova S, Liston D R, Tachezy J, et al. Molecular biology of the amitochondriate parasites, *Giardia intestinalis*, *Entamoeba histolytica* and *Trichomonas vaginalis*. *Int J Parasitol.* 2003; 33: 235.

- 39) Clark C G, Diamond L S. Methods for cultivation of luminal parastic protists of clinical importance. Clin Microbiol Rev. 2002; 15: 329.
- 40) Honigberg B M. Trichomonads Parasitic in Humans. New York: Springer-Verlag, 1990.
- 41) Dunne R L, Dunn L A, Upcroft P, et al. Drug resistance in the sexually transmitted protozoan *Trichomonas vaginalis*. Cell Res. 2003; 13: 239.
- 42) Hernandez-Gutierrez R, Avila-Gonzalez L, Ortega-Lopez J, et al *Trichomonas vaginalis*: Characterization of a 39-kDa-cysteine proteinase found in patient vaginal secretions. Exp Parasitol. 2004; 107: 125.
- 43) Alderete J F, Newton E, Dennis C, et al. The vagina of women infected with *Trichomonas vaginalis* has numerous proteinases and antibody to trichomonad proteinases. Genitourin Med. 1991; 67: 469.
- 44) Leherker M W, Sweeney D. Trichomonad invasion of the mucous layer requires adhesins, mucinases, and motility. Sex Transm Infect. 1999; 75: 231.
- 45) Vargas-Villarreal J, Mata-Cardenas B D, Palacios-Corona R, et al. *Trichomonas vaginalis*: Identification of soluble and membrane-

- associated phospholipase A1 and A2 activities with direct and indirect hemolytic effects. *J Parasitol.* 2005; 91: 5.
- 46) Vargas-Villarreal J, Mata-Cardenas B D, Gonzalez-Salazar F, et al. *Trichomonas vaginalis*: Identification of a phospholipase A-dependent hemolytic activity in a vesicular subcellular fraction. *J Parasitol.* 2003; 89: 105.
- 47) Lubick K J, Burgess D E. Purification and analysis of a phospholipase A2-like lytic factor of *Trichomonas vaginalis*. *Infect Immun* 2004; 72: 1284.188. Crouch ML, Alderete JF. *Trichomonas vaginalis* interactions with fibronectin and laminin. *Microbiol.* 1999; 145: 2835.
- 48) Crouch M L, Benchimol M, Alderete J F. Binding of fibronectin by *Trichomonas vaginalis* is influenced by iron and calcium. *Microb Pathog.* 2001; 31: 131.
- 49) Krieger J N, Alderete J F. *Trichomonas vaginalis* and trichomoniasis. In: Holmes K K, Sparling P F, Mardh P, et al., eds. *Sexually Transmitted Diseases*, 3rd edn. New York: McGraw-Hill.2000; p. 587.
- 50) Garcia A, Chang T, Benchimol M, Klumpp D, Lehker M, Alderete J. Iron and contact with host cells induce expression of adhesins

- on surface of *Trichomonas vaginalis*. *Molecular Microbiology*.2003; 47: 1207-24.
- 51) Krieger J N, Verdon M, Siegel N, et al. Risk assessment and laboratory diagnosis of trichomoniasis in men. *J Infect Dis*.1992; 166: 1362.
- 52) Zariffard M R, Harwani S, Novak R M, Graham P J, Ji X, Spear G T. *Trichomonas vaginalis* infection activates cells through toll-like receptor 4. *Clin Immunol*. 2004; 111: 103.
- 53) Peterman T, Tian L, Metcalf C, Malotte K, Paul S, Douglas Jr J. Persistent, undetected *Trichomonas vaginalis* infections. *Clin Infect Dis*. 2009; 48: 259-60.
- 54) Schwebke J, Burgess D. Trichomoniasis. *Clin Microbiol Rev*. 2004; 17: 794-803.
- 55) Wallin J E, Thompson S E, Zaidi A, Wong K H. Urethritis in women attending an STD clinic. *Br J Vener Dis*. 1981; 57:50.
- 56) Sharma V K, Dhawan J, Tejasvi T. Trichomoniasis and other Protozoal diseases. In: Sharma V K, ed. *Sexually Transmitted Diseases and HIV/AIDS*. 2nd edn. India: Viva Books Pvt. Ltd. 2009; p 488-512.

- 57) Sutton M, Sternberg M, Koumans E H, McQuillan G, Berman S, Markowitz L. The prevalence of *Trichomonas vaginalis* infection among reproductive-age women in the United States, 2001-2004. *Clin Infect Dis*. 2007; 45: 1319-26.
- 58) Klinger E V, Kapiga S H, Sam N E, Aboud S, Chen C Y, Ballard R C, et al. A Community-based study of risk factors for *Trichomonas vaginalis* infection among women and their male partners in Moshi urban district, Northern Tanzania. *Sex Transm Dis*. 2006; 33: 712-8.
- 59) Zhang Z F. Epidemiology of *Trichomonas vaginalis*. A prospective study in China. *Sex Transm Dis*. 1996; 23: 415-24.
- 60) Lichtenstein B, Desmond R A, Schwebke J R. Partnership Concurrency Status and Condom Use among Women Diagnosed with *T. vaginalis*. *Womens Health Issues*. 2008; 18: 369–74.
- 61) Grodstein F, Goldman M B, Cramer D W. Relation of Tubal Infertility to History of Sexually Transmitted Diseases. *Am J Epidemiol*. 1993; 137: 577- 84.
- 62) Zhang Z F, Graham S, Yu S Z, Marshall J, Zielezny M, Chen Y X, et al. *Trichomonas vaginalis* and cervical cancer. A prospective study in China. *Ann Epidemiol*. 1995; 5: 325-32.

- 63) Cook R L, Clark D B. Is there an association between alcohol consumption and sexually transmitted diseases? A systematic review. *Sex Transm Dis*. 2005; 32: 156-64.
- 64) Helms D J, Mosure D J, Metcalf C A, Douglas J M, Malotte C K, Paul S M, et al. Risk factors for prevalent and incident *Trichomonas vaginalis* among women attending three sexually transmitted disease clinics. *Sex Transm Dis*. 2008; 35: 484-8.
- 65) Daly C C, Maggwa N, Mati J K, Solomon M, Mbugua S, Tukei P M, et al. Risk factors for gonorrhoea, syphilis, and trichomonas infections among women attending family planning clinics in Nairobi, Kenya. *Genitourin Med*. 1994; 70: 55-61.
- 66) Sorvillo F, Smith L, Kerndt P, Ash L. *Trichomonas vaginalis*, HIV, and African-Americans. *Emerg Infect Dis*. 2001; 7: 927-32.
- 67) Moodley P, Wilkinson D, Connolly C, Moodley J, Sturm A W. *Trichomonas vaginalis* is associated with pelvic inflammatory disease in women infected with human immunodeficiency virus. *Clin Infect Dis*. 2002; 34: 519-22.
- 68) Donne', M A. Animacules observes dans les matieres purulentes et leproduit des secretions des organes genitaux de l'homme et de la femme. *C. R. Acad. Sci*. 1836; 3: p385-386.

- 69) Jirovec O and M Petru. *Trichomonas vaginalis* and trichomoniasis. *Adv. Parasitol.*1968; 6:p 117–188.
- 70) McCormack, W. Sexually transmissible conditions other than gonorrhoea and syphilis.1974; p 1–16. In F. Tice and L. H. Sloan. (ed.), *Practice of medicine*. Harper & Row, Publishing Co., New York, N.Y.88.
- 71) Rein, M. F., and K. K. Holmes. “Non-specific vaginitis”, vulvovaginal candidiasis and trichomoniasis: clinical features, diagnosis and management.1983;p. 281–315. In J. Remington and M. N. Swartz (ed.), *Current clinical topics in infectious diseases*. Blackwell Scientific Publications, New York.
- 72) Wisdom, A. R., and E. M. C. Dunlop. Trichomoniasis: study of the disease and its treatment in women and men. *Br. J. Vener. Dis.* 1965; 41:90–96.
- 73) Domeika M, Zhurauskaya L, Savicheva A, Frigo N, Sokolovskiy E, Hallen A et al. Guidelines for the laboratory diagnosis of trichomoniasis in East European countries. *J Eur Acad Dermatol Venereol.* 2010; 24:1125–34.
- 74) Kingston M A, Bansal D, Carlin E M. ‘Shelf life’ of *Trichomonas vaginalis*. *Int J STD AIDS.*2003; 14: 28. 263. Lobo T T, Feijo G, Carvalho S E, et al. A comparative evaluation of the Papanicolaou

- test for the diagnosis of trichomoniasis. *Sex Transm Dis.* 2003; 30: 694.
- 75) Mc Cann J S. Comparison of direct microscopy and culture in the diagnosis of trichomoniasis. *Br J Vener Dis.*1974; 50: 450-2.
- 76) Adu-Sarkodie Y, Opoku B K, Danso K A, Weiss H A, Mabey D. Comparison of latex agglutination, wet preparation, and culture for the detection of *Trichomonas vaginalis*. *Sex Transm Infect.* 2004; 80: 201-3.
- 77) Lobo T T, Feijo G, Carvalho S E, et al. A comparative evaluation of the Papanicolaou test for the diagnosis of trichomoniasis. *Sex Transm Dis.* 2003; 30: 694.
- 78) Wiese W, Patel S R, Patel S C, et al. A meta-analysis of the Papanicolaou smear and wet mount for the diagnosis of vaginal trichomoniasis. *Am J Med.* 2000; 108: 301.
- 79) Pattullo L, Griffeth S, Ding L, Mortensen J, Reed J, Kahn J, et al. Stepwise diagnosis of *Trichomonas vaginalis* infection in adolescent women. *J Clin Microbiol.* 2009; 47: 59-63.
- 80) Schmid G, Matheny L, Zaidi A, Kraus S. Evaluation of six media for the growth of *Trichomonas vaginalis* from vaginal secretions. *J Clin Microbiol.* 1989; 27: 1230-33.

- 81) Patel S R, Wiese W, Patel S C, Ohl C, Byrd J C, Estrada C A. Systematic review of diagnostic tests for vaginal trichomoniasis. *Infect Dis Obstet Gynecol*, 2000; 8: 248-57.
- 82) Borchardt K A, Zhang M Z, Shing H, Flink K. A comparison of the sensitivity of the InPouch TV, Diamond's and Trichosel media for detection of *Trichomonas vaginalis*. *Genitourin Med*.1997; 73: 297-8.
- 83) Riley D E, Roberts M C, Takayama T, Krieger J N. Development of a polymerase chain reaction-based diagnosis of *Trichomonas vaginalis*. *J Clin Microbiol*. 1992; 30: 465-72.
- 84) Puri K J, Madan A, Bajaj K. Incidence of various causes of vaginal discharge among sexually active females in age group 20-40 years. *Indian J Dermatol Venereol Leprol*. 2003; 69: 22-5.
- 85) Zimba T F, Apalata T, Sturm W A, Moodley P. Aetiology of sexually transmitted infections in Maputo, Mozambique. *J Infect Dev Ctries*. 2011; 5: 41-7.
- 86) Pelvic inflammatory disease. Sexually transmitted diseases treatment guidelines, 2010. <http://www.cdc.gov/std/treatment/2010/pid.htm>.

- 87) Rasoloson D, Vanacova S, Tomkova E, et al. Mechanisms of in vitro development of resistance to metronidazole in *Trichomonas vaginalis*. *Microbiol.* 2002; 148: 2467.
- 88) Sherrard J. European guideline for the management of vaginal discharge. *Int J STD AIDS.* 2001; 12(Suppl 3): 73.
- 89) Mammen-Tobin A, Wilson J D. Management of metronidazole-resistant *Trichomonas vaginalis*—a new approach. *Int J STD AIDS.* 2005; 16: 488.
- 90) Crowell A L, Sanders-Lewis K A, Secor WE. In vitro metronidazole and tinidazole activities against metronidazole-resistant strains of *Trichomonas vaginalis*. *Antimicrob Agents Chemother* 2003; 47: 1407.
- 91) Gombosova, A., P. Demes, and M. Valent. Immunotherapeutic effect of the lactobacillus vaccine, Solco Trichovac, in trichomoniasis is not mediated by antibodies cross reacting with *Trichomonas vaginalis*. *Genitourin. Med.* 1986; 62:107–110.
- 92) Spiegel, C. A. 1990. Microflora associated with *Trichomonas vaginalis* and vaccination against vaginal trichomoniasis, p. 213–224. In B. M. Honigberg (ed.), *Trichomonads parasitic in humans*. Springer-Verlag, New York, N.Y.

- 93) Alderete J F. Does lactobacillus vaccine for trichomoniasis, Solco Trichovac, induce antibody reactive with *Trichomonas vaginalis*? Genitourin.Med. 1988;64:118–123.
- 94) Mahmoud M S, Abdel-Aziz S S, El-Sherif E A, Swidan K H. Diagnosis of symptomatic and asymptomatic *Trichomonas vaginalis* infection by applying one tube nested PCR to vaginal discharge. J Egypt Soc Parasitol. 1999;29(3):1031-46.
- 95) Cevahir N, Kaleli I, Kaleli B. Evaluation of direct microscopic examination, acridine orange staining and culture methods for studies of *Trichomonas vaginalis* in vaginal discharge specimens. Mikrobiyol Bul. 2002 Jul-Oct;36(3-4):329-35.
- 96) Chakraborty T, Mulla SA, Kosambiya JK, Desai VK. Prevalence of *Trichomonas vaginalis* infection in and around Surat. Indian J Pathol Microbiol. 2005 Oct;48(4):542-5.
- 97) Fotinatos N, Warmington A, Walker T, Pilbeam M. *Trichomonas vaginalis* in Vanuatu. Aust J Rural Health. 2008; 16: 23-7.
- 98) Haytham M. Al-Habib, Nawfal Al-Dabbagh, Ghada A. Al-Daheen. The prevalence of *Trichomonas vaginalis* in association with other micro-organism among women with vaginal discharge in Mousul. Ann.Coll. Med. Mosul 2004; Vol 31(1):37-44.
- 99) Dahab M. M. Koko W.S. Osman E. E. and Hilali A. H. M. Prevalence and transmission of *Trichomonas vaginalis* infection

among women in Khartoum State, Sudan. Journal of Public Health and Epidemiology Vol. 4(2) February 2012, pp. 34-38.

- 100) Leon S, Konda K, Bernstein K, Pajuelo J, Rosasco A, Caceres CF, et al. *Trichomonas vaginalis* infection and associated risk factors in a socially-marginalized female population in Coastal Peru. *Infect Dis Obstet Gynecol*. 2009; 75: 243-7.
- 101) Jerajani H R, Melkote S. Sexually transmitted diseases in women and reproductive health. In: Sharma V K, ed. *Sexually Transmitted Diseases and HIV/AIDS*. 2nd edn. India: Viva Books Pvt. Ltd. 2009. p. 56-68.
- 102) Wolner-Hanssen P, Krieger J N, Stevens C E, Kiviat N B, Koutsky L, Critchlow C, et al. Clinical manifestations of vaginal trichomoniasis. *JAMA*. 1989; 261: 571-6.
- 103) Thulkar J, Kriplani A, Agarwal N. Utility of pH test & Whiff test in syndromic approach of abnormal vaginal discharge. *Indian J Med Res*. 2010; 131: 445-8.
- 104) Pavletic A J, Hawes S E, Geske J A, Bringe K, Polack S H. Experience with routine vaginal pH testing in a family practice setting. *Infect Dis Obstet Gynecol*. 2004; 12: 63–8.
- 105) Plourd D M. Practical guide to diagnosing and treating vaginitis. *Medscape Women's Health*. 1997; 2:2.

ABBREVIATIONS

| | | |
|--------------|---|--------------------------------------------------|
| AC | : | Adenocarcinoma |
| AGNOS | : | Atypical glandular cells not otherwise specified |
| AP | : | Adhes in proteins |
| BV | : | Bacterial vaginosis |
| CDC | : | Center of Disease control |
| CPE | : | Cytopathological Effects |
| FCU | : | First catch urine |
| Gm | : | Grams |
| HGSIL | : | High grade squamous intraepithelial lesion |
| HIV | : | Human Immunodeficiency Virus |
| IL | : | Interleukin |
| KOH | : | Potassium hydroxide |
| LSCS | : | Lower segment cesarean section |
| LR | : | Likelihood ratio |
| MPC | : | Mucopurulent cervicitis |
| NACO | : | National AIDS control organization |
| Paps smear | : | Papanicolaou smear |
| SCC | : | Squamous cell carcinoma |
| SD | : | Standard deviation |
| Sn | : | Sensitivity |
| Sp | : | Specificity |
| sp | : | Species |
| STI | : | Sexually transmitted infections |
| TV | : | Trichomoniasis |
| T.vaginalis | : | Trichomonas vaginalis |
| TNF α | : | Tumor necrosis factor alpha |
| TLR | : | Toll-like receptor |
| WHO | : | World health organization |

PROFUSE VAGINAL DISCHARGE



FROTHY PURULENT DISCHARGE



SPECULUM EXAMINATION: FROTHY VAGINAL DISCHARGE



**SPECULUM EXAMINATION
THICK MUCOPURULENT VAGINAL DISCHARGE**



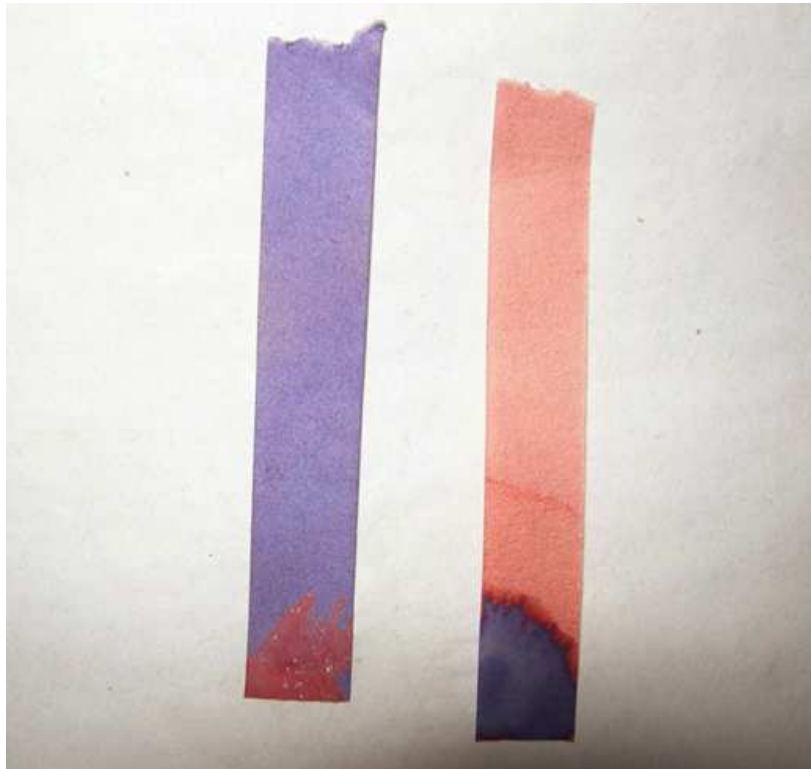
Speculum examination: Profuse Muroid Discharge



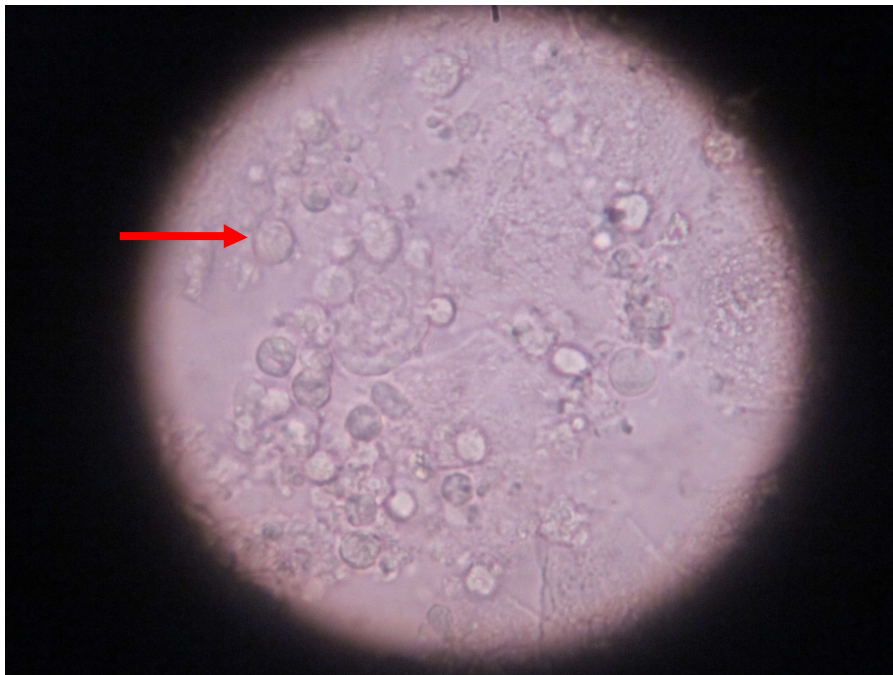
**SPECULUM EXAMINATION
FROTHY VAGINAL DISCHARGE WITH CERVICAL EROSION**



THE pH TEST



WET MOUNT TRICHOMONAS VAGINALIS (PEAR SHAPED, FLAGELLATED) UNDER LOW POWER



**WET MOUNT
TRICHOMONAS VAGINALIS (PEAR SHAPED, FLAGELLATED)
UNDER LOW POWER**



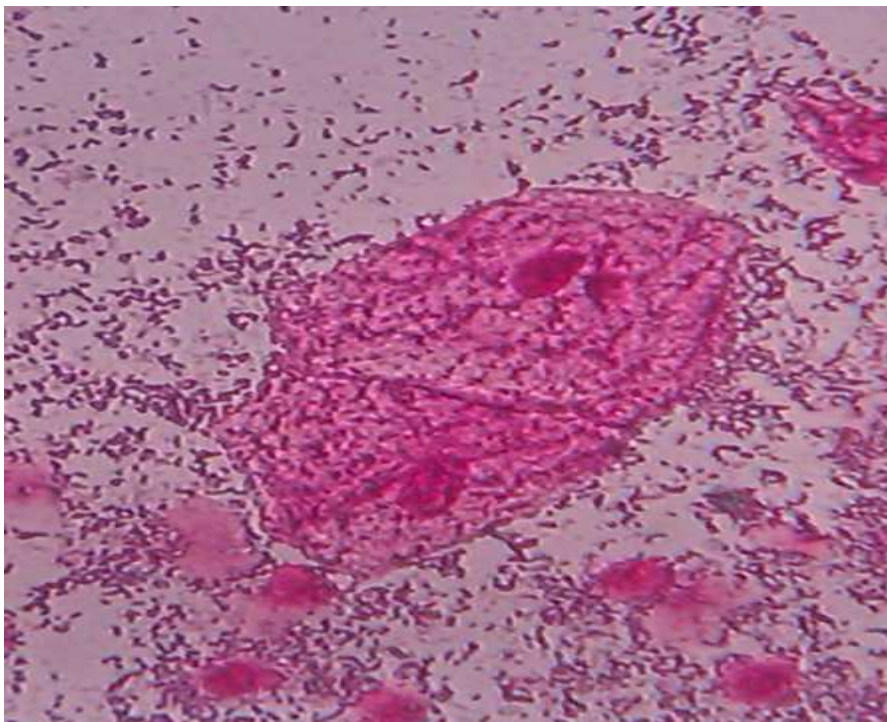
**WET MOUNT
TRICHOMONAS VAGINALIS (PEAR SHAPED, FLAGELLATED)
UNDER HIGH POWER**



EPITHELIAL CELLS IN GRAMS STAIN



CLUE CELLS IN GRAMS STAIN



MATERIALS REQUIRED FOR DIAMOND'S MEDIA PREPARATION



HORSE SERUM



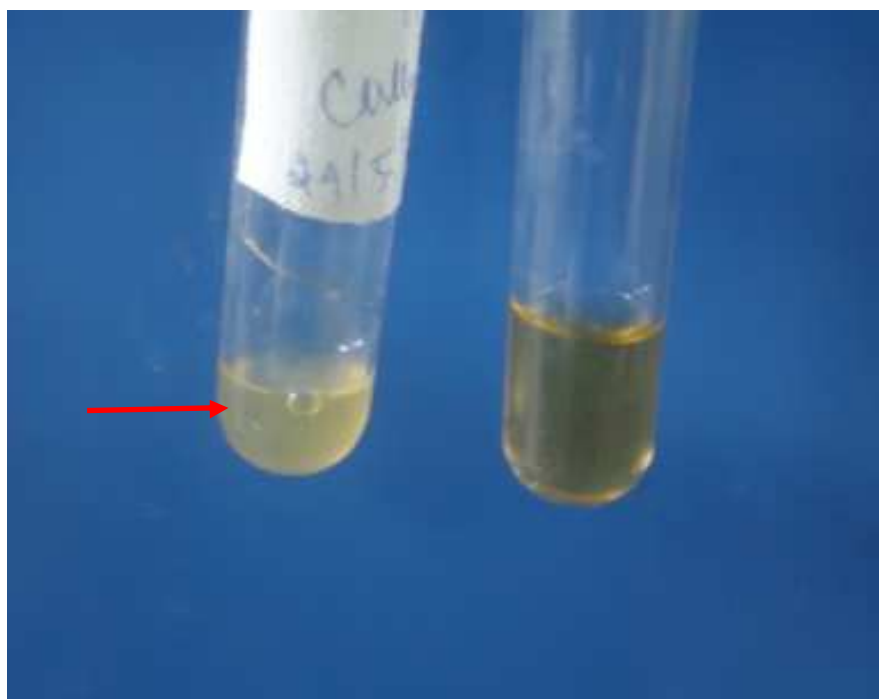
PREPARED MEDIUM IN CONICAL GLASS JAR



**15ML CAPACITY CAPPED GLASS TUBES CONTAINING
DIAMOND'S MEDIUM**



GROSS APPEARANCE OF TRICHOMONAS POSITIVE SAMPLE



GROSS APPEARANCE: TURBIDITY



INSTITUTIONAL ETHICS COMMITTEE
MADRAS MEDICAL COLLEGE, CHENNAI -3

Telephone No : 044 25305301
Fax : 044 25363970

CERTIFICATE OF APPROVAL

To
Dr. Anupama M.P
PG in MDDVL
Madras Medical College, Chennai -3

Dear Dr. Anupama M.P

The Institutional Ethics committee of Madras Medical College, reviewed and discussed your application for approval of the proposal entitled "Comparative study of Trichomonas vaginalis infection in symptomatic and asymptomatic female patients attending STD outpatient dept diagnosed by wet mount and culture method" No.05012012.

The following members of Ethics Committee were present in the meeting held on 27.01.2012 conducted at Madras Medical College, Chennai -3.

- | | |
|--------------------------------------------------------------------------------------------------------|---------------------|
| 1. Prof. S.K. Rajan. MD | -- Chairperson |
| 2. Prof. Pregna B. Dolia MD | -- Member Secretary |
| Vice Principal, Madras Medical College, Chennai -3 (Director, Institute of Biochemistry, MMC, Ch-3) | |
| 3. Prof. B. Kalaiselvi. MD | -- Member |
| Prof of Pharmacology, MMC, Ch-3 | |
| 4. Prof. Shruti Kamal MS | -- Member |
| Prof of Surgery, Madras Medical College, Ch-3 | |
| 5. Thiru. S. Govindsamy. BA BL | -- Lawyer |

We approve the proposal to be conducted in its presented form.

Sd/ Chairman & Other Members

The Institutional Ethics Committee expects to be informed about the progress of the study, and SAE occurring in the course of the study, any changes in the protocol and patients information / informed consent and asks to be provided a copy of the final report.


Member Secretary, Ethics Committee

PATIENT CONSENT FORM

Title of the study:-“ Comparative study of Trichomonas vaginalis infection in symptomatic and asymptomatic female patients attending STD outpatient dept diagnosed by wet mount and culture method.

Name _____ **of** _____ **the** _____ **Participant:**

Name of the Principal (Co-Investigator): Dr ANUPAMA.M.P

Name of the Institution: Government General Hospital, Chennai.

Documentation of the informed consent

I _____ have read the information in this form (or it has been read

to me). I was free to ask any questions and they have been answered. I am over 18 years of age

and, exercising my free power of choice, hereby give my consent to be included as a participant

in the study..

1. I have read and understood this consent form and the information provided to me.
2. I have had the consent document explained to me.
3. I have been explained about the nature of the study.
4. My rights and responsibilities have been explained to me by the investigator.
5. I agree to cooperate with the investigator and I will inform him/her immediately if I suffer unusual symptoms.
6. I have not participated in any research study within the past _____month(s).
7. I am aware of the fact that I can opt out of the study at any time without having to give any reason and this will not affect my future treatment in this hospital.
8. I hereby give permission to the investigators to release the information obtained from me as
result of participation in this study to the sponsors, regulatory authorities, Govt. agencies, and IEC. I understand that they are publicly presented.
9. My identity will be kept confidential if my data are publicly presented

10. I am aware that if I have any question during this study, I should contact at one of the addresses listed above. By signing this consent form I attest that the information given in this document and the HIV consent form has been clearly explained to me and apparently understood by me, I will be given a copy of this consent document.

Participant's Initials:

For adult participants:

Name and signature / thumb impression of the participant (or legal representative if participant incompetent)

Name

Signature

Date

Name and Signature of impartial witness (required for illiterate patients):

Name

Signature

Date

Address and contact number of the impartial witness:

Name and Signature of the investigator or his representative obtaining consent:

Name

Signature

Date

PROFORMA :

Serial No :

STD OP No :

Name :

Sex :

Age:

- ☐ 18-25
- ☐ 26-35
- ☐ 36-45
- ☐ $\geq 46-55$

Address: ☐ Rural/Urban

Occupation ☐ Private Employee
☐ Government Employee

☐ Self Employee

☐ Unemployed

Monthly Income:<500☐
☐ 5000-10000
☐ 15000
☐ >15000

Education Status: ☐ Illiterate
 ☐ <5th
 ☐ 6th – 12th
 ☐ Graduate
 ☐ `Professionals

Sexual History:

Marital status: Married / Single/widow

Married since: < ☐ years
 ☐ 5-10 years
 ☐ 11-15 years
 ☐ > 15 years

Premarital Contact : Yes / No

If yes Commercial sexw ☐ker

Homosexual ☐

Transgender ☐

Known person ☐

Extra marital contact: Yes/ No

If yes

☐ Commercial sexworker

Homosexual

☐

☐ Transgender

☐ Known person

Condom usage with partner:

☐ Always

☐ Occasionally

☐ Never

Contraceptive followed:

☐ Oral

☐ Condom /Shield

☐ IUD

☐ No contraceptive followed

Previous history of sexually transmitted infection: Yes/ No

If yes

☐ Genital ulcer

☐ Genital discharge

☐ Others

Whether diagnosed properly and took appropriate treatment: Yes / No

Husband(Partners) with pre/Extramartial contact: Yes/ No

Substance abuse:Yes/No

Presenting complaints:

C/O Genital ulcer

C/O Genital discharge

Duration history

Others if specify

H/O Itching over genitalia

H/O swelling in inguinal region

H/O burning micturition

H/O oral lesion

H/O lower abdominal pain

H/O Dyspareunia

H/O Dysmenorrhoea

Menstrual H/O: Regular/Irregular/Relation to discharge present or absent.

Obstetric H/O: Normal delivery/ LSCS/Abortion/Nullipara.

Past history:

TB, BA, any major illness.

H/O blood transfusions and any major surgeries.

Previous history of venereal diseases.

Personal history:

H/O alcohol intake.

H/O smoking.

H/O IV Drug abuse.

General Examination:

Pallor, Icterus, Cyanosis, Clubbing ,lymphadenopathy

Pulse rate, Blood pressure, Temperature

CVS:

RS:

P/A:

CNS:

Skin and mucous membrane:

Genital Examination:

Examination Inguinal lymphnode.

External genitalia for any genital lesion .

Speculum examination.

Bi manual Examination.

In case of genital ulcers:

Dark field examination for *Treponema pallidum*.

Tzanck test for multi nucleated giant epithelial cells.

Gram stain for *Haemophilus ducreyi* and *Candida*.

Tissue smear and Leishman's stain for *klebsiella granulomatis*.

In case of vaginal discharge:

Wet mount microscopy for *Trichomonas vaginalis*.

Culture for *Trichomonas vaginalis*.

10% KOH preparation for *Candida albicans*.

Gram stain of vaginal smear for clue cells and Candidal hyphae.

Gram stain of endocervical smear for gonococci.

In addition to above investigation endocervical swab for gonococcal culture and for PAP smear are collected for all female patients.

Blood sample for blood VDRL and HIV antibody test are taken.

SYMPTOMATIC PATIENTS

| Demographic, Behaviour and Reproductive History | | | | | | | | | | | | | | | Disease Characteristics & Genital Examination | | | | | | | | | | | | | | | Investigations | | | | | | | | | | | | | | | Diagnosis | |
|-------------------------------------------------|-----------|-----------|-----------|--------------------|----------------|------------------------|-----------------------------------|-----------------------------|---------------|-------------------|---------------------|--------------------------|------------------------------------|-----------------|-----------------------------------------------|--------------------------------------|--------------------------|--------|--------------------|----------------|-------------------|------------------|-----------------|-----------------------|------------------|----------------------|--------------------|----------|------------|----------------|-----------|------------|-----------|--------------------------------|--------------------------------|--------------------------------|-----|------|----------------|-----------|-----|--|--|--|-----------|--|
| Serial no. | Age (yrs) | Residence | SE status | Educational status | Marital status | Pre/extramital contact | Husband with extramarital contact | Involvement in prostitution | Contraception | Obstetric history | Symptoms in partner | Past I/O PID/Infertility | Treatment received within 3 months | Substance abuse | Age at onset (yrs) | Duration of vaginal discharge (days) | Relation to menstruation | Others | Vulvar examination | Genital ulcers | Vaginal discharge | Discharge amount | Discharge odour | Discharge consistency | Discharge colour | Cervical examination | Adnexal tenderness | pH range | Whiff test | Wet mount | KOH mount | Gram stain | Pap Smear | Trichomonas culture on 3rd day | Trichomonas culture on 5th day | Trichomonas culture on 7th day | HIV | VDRL | Coexisting STI | Diagnosis | | | | | | |
| 1 | 45 | 2 | 3 | 1 | 2 | 2 | 3 | 1 | 1 | 1 | 1 | 4 | 1 | 1 | 35 | 7 | 1 | 6 | 1 | 1 | 2 | 3 | 2 | 4 | 2 | 2 | 1 | 2 | 1 | 2 | 1 | 6 | 1 | P | P | P | N | N | NO | TV | | | | | | |
| 2 | 26 | 1 | 4 | 1 | 1 | 1 | 3 | 1 | 1 | 1 | 1 | 3 | 1 | 1 | 25 | 365 | 1 | 3 | 1 | 1 | 2 | 1 | 1 | 3 | 1 | 1 | 1 | 2 | 1 | 2 | 1 | 1 | 2 | P | P | N | N | N | YES | TV/BV | | | | | | |
| 3 | 46 | 2 | 1 | 1 | 1 | 1 | 3 | 1 | 1 | 1 | 1 | 4 | 1 | 1 | 46 | 10 | 1 | 6 | 1 | 1 | 2 | 1 | 1 | 3 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 6 | 1 | N | N | N | N | N | NO | UTI | | | | | | |
| 4 | 32 | 1 | 2 | 2 | 1 | 1 | 3 | 1 | 1 | 1 | 1 | 4 | 1 | 1 | 32 | 8 | 2 | 7 | 1 | 1 | 2 | 3 | 1 | 3 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 6 | 1 | N | N | N | N | N | NO | PHY | | | | | | |
| 5 | 18 | 1 | 1 | 1 | 1 | 1 | 2 | 1 | 1 | 1 | 1 | 3 | 1 | 1 | 18 | 7 | 1 | 1 | 1 | 1 | 2 | 3 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 6 | 1 | N | N | N | N | N | NO | CAN | | | | | | |
| 6 | 29 | 2 | 3 | 1 | 2 | 1 | 4 | 1 | 1 | 4 | 1 | 4 | 1 | 1 | 28 | 365 | 1 | 7 | 1 | 1 | 2 | 1 | 1 | 3 | 1 | 5 | 1 | 1 | 1 | 1 | 2 | 3 | 1 | N | N | N | N | N | NO | CAN | | | | | | |
| 7 | 50 | 1 | 1 | 2 | 1 | 1 | 3 | 1 | 1 | 1 | 1 | 4 | 1 | 1 | 50 | 7 | 1 | 1,3 | 1 | 1 | 2 | 3 | 1 | 3 | 3 | 1 | 2 | 1 | 1 | 1 | 1 | 2 | 1 | N | N | N | N | N | NO | BV | | | | | | |
| 8 | 33 | 1 | 3 | 2 | 1 | 1 | 3 | 1 | 1 | 1 | 1 | 3 | 1 | 1 | 32 | 365 | 2 | 1 | 1 | 1 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 6 | 1 | N | N | N | N | p | NO | CAN | | | | | | |
| 9 | 30 | 1 | 2 | 2 | 1 | 1 | 3 | 2 | 2 | 1 | 1 | 4 | 1 | 1 | 29 | 365 | 1 | 6 | 1 | 1 | 2 | 1 | 1 | 3 | 1 | 1 | 1 | 1 | 1 | 3 | 2 | 5 | 1 | N | N | N | N | N | NO | CAN | | | | | | |
| 10 | 24 | 2 | 3 | 2 | 2 | 1 | 4 | 1 | 4 | 4 | 1 | 4 | 1 | 1 | 24 | 60 | 2 | 6 | 1 | 1 | 2 | 1 | 1 | 2 | 1 | 5 | 1 | 1 | 1 | 1 | 1 | 6,1 | 1 | N | N | N | N | N | NO | PHY | | | | | | |
| 11 | 44 | 1 | 3 | 1 | 1 | 1 | 3 | 1 | 5 | 1 | 1 | 4 | 1 | 1 | 42 | 720 | 1 | 6 | 3 | 1 | 1 | 1 | 2 | 3 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | N | N | N | N | N | NO | LC | | | | | | |
| 12 | 37 | 1 | 1 | 2 | 1 | 1 | 3 | 1 | 1 | 1 | 1 | 4 | 1 | 1 | 37 | 30 | 1 | 6 | 1 | 1 | 2 | 2 | 1 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | N | N | N | N | N | NO | PHY | | | | | | |
| 13 | 40 | 2 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 4 | 1 | 1 | 40 | 180 | 2 | 6 | 1 | 1 | 2 | 3 | 2 | 3 | 2 | 1 | 1 | 2 | 2 | 4 | 1 | 1 | 1 | N | N | N | N | N | NO | BV | | | | | | |
| 14 | 20 | 1 | 2 | 2 | 1 | 1 | 3 | 1 | 5 | 1 | 1 | 4 | 1 | 1 | 19 | 365 | 1 | 6 | 1 | 1 | 2 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 3 | 2 | 5 | 1 | N | N | N | N | N | NO | CAN | | | | | |
| 15 | 35 | 1 | 4 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 4 | 1 | 1 | 35 | 30 | 1 | 3 | 1 | 1 | 2 | 2 | 2 | 3 | 2 | 1 | 1 | 2 | 2 | 4 | 1 | 1 | 1 | N | N | N | N | N | NO | BV | | | | | | |
| 16 | 35 | 2 | 1 | 1 | 1 | 1 | 3 | 1 | 1 | 1 | 1 | 4 | 1 | 1 | 36 | 210 | 1 | 5 | 1 | 1 | 2 | 3 | 2 | 3 | 2 | 1 | 1 | 2 | 2 | 4 | 1 | 1 | 1 | N | N | N | N | N | NO | BV | | | | | | |
| 17 | 50 | 1 | 2 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 4 | 1 | 1 | 48 | 150 | 1 | 6 | 1 | 1 | 2 | 3 | 1 | 3 | 1 | 1 | 1 | 2 | 2 | 1 | 2 | 1,5 | 1 | N | N | N | N | N | NO | BV/CAN | | | | | | |
| 18 | 27 | 2 | 3 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 4 | 1 | 1 | 22 | 4yrs | 1 | 3 | 1 | 1 | 2 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 3 | 2 | 5 | 1 | N | N | N | N | N | NO | CAN | | | | | | |
| 19 | 27 | 1 | 3 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 4 | 1 | 1 | 27 | 90 | 1 | 1,3 | 1 | 2 | 2 | 1 | 1 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 6 | 1 | N | N | N | N | N | NO | PHY | | | | | | |
| 20 | 35 | 2 | 3 | 2 | 1 | 2 | 1 | 1 | 1 | 1 | 1 | 3 | 1 | 1 | 35 | 30 | 1 | 1,3 | 1 | 1 | 2 | 2 | 2 | 4 | 3 | 1 | 1 | 2 | 1 | 2 | 1 | 6 | 1 | P | P | N | N | NO | TV | | | | | | | |
| 21 | 40 | 1 | 4 | 0 | 1 | 1 | 1 | 1 | 1 | 2 | 1 | 4 | 1 | 1 | 40 | 15 | 1 | 1 | 1 | 1 | 2 | 1 | 1 | 3 | 2 | 1 | 1 | 2 | 2 | 4 | 1 | 1 | 1 | N | N | N | N | n | NO | BV | | | | | | |
| 22 | 36 | 2 | 3 | 2 | 1 | 1 | 3 | 1 | 1 | 1 | 1 | 4 | 1 | 1 | 33 | 3y | 1 | 1,3,5 | 2 | 1 | 2 | 2 | 1 | 3 | 1 | 1 | 1 | 1 | 1 | 3 | 2 | 5 | 1 | N | N | N | N | N | NO | CAN | | | | | | |
| 23 | 31 | 1 | 4 | 2 | 1 | 1 | 3 | 1 | 1 | 1 | 1 | 4 | 1 | 1 | 31 | 180 | 2 | 2,3 | 1 | 1 | 2 | 2 | 3 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 6 | 1 | N | N | N | N | N | NO | PHY | | | | | | |
| 24 | 27 | 1 | 3 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 1 | 4 | 1 | 1 | 21 | 7y | 2 | 3 | 1 | 1 | 2 | 3 | 1 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 6 | 1 | N | N | N | N | N | NO | PHY | | | | | | |
| 25 | 32 | 2 | 4 | 0 | 1 | 1 | 2 | 1 | 1 | 1 | 1 | 4 | 1 | 1 | 30 | 2y | 1 | 1 | 1 | 1 | 2 | 3 | 3 | 4 | 1,3 | 1 | 1 | 2 | 2 | 2,4 | 1 | 1,5 | 1 | P | P | N | N | N | YES | TV/BV | | | | | | |
| 26 | 39 | 1 | 4 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 4 | 1 | 1 | 39 | 3 | 1 | 2 | 3 | 1 | 2 | 1 | 1 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 6 | 1 | N | N | N | N | N | NO | PHY/BC | | | | | | |
| 27 | 22 | 2 | 3 | 3 | 2 | 2 | 2 | 2 | 4 | 4 | 3,4 | 4 | 1 | 1 | 22 | 7 | 1 | 2,3 | 2 | 2 | 2 | 2 | 2 | 2 | 3 | 5 | 1 | 1 | 1 | 1 | 1 | 3 | 1 | N | N | N | N | N | NO | HERPES | | | | | | |
| 28 | 40 | 1 | 3 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 4 | 1 | 1 | 38 | 60 | 1 | 3 | 1 | 1 | 2 | 1 | 1 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 6 | 1 | N | N | N | N | N | NO | PHY | | | | | | |
| 29 | 30 | 1 | 4 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 4 | 1 | 1 | 30 | 20 | 1 | 6 | 1 | 1 | 2 | 1 | 1 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 6 | 1 | N | N | N | N | N | NO | PHY | | | | | | |
| 30 | 23 | 2 | 3 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 4 | 1 | 1 | 20 | 3y | 2 | 6 | 1 | 2 | 2 | 1 | 1 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 6 | 1 | N | N | N | N | N | NO | PHY | | | | | | |
| 31 | 19 | 1 | 4 | 2 | 2 | 1 | 4 | 1 | 4 | 4 | 1 | 4 | 1 | 1 | 16 | 728 | 2 | 6 | 1 | 1 | 2 | 2 | 1 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 6 | 1 | N | N | N | N | N | NO | MPC | | | | | | |
| 32 | 34 | 1 | 3 | 2 | 1 | 1 | 1 | 1 | 3 | 1 | 1 | 4 | 1 | 1 | 34 | 30 | 1 | 1 | 1 | 1 | 2 | 1 | 1 | 5 | 1 | 2 | 1 | 1 | 1 | 1 | 1 | 3 | 1 | N | N | N | N | N | NO | PHY | | | | | | |
| 33 | 30 | 2 | 4 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 4 | 1 | 1 | 28 | 30 | 1 | 3 | 1 | 1 | 2 | 2 | 1 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 6 | 1 | N | N | N | N | N | NO | PHY | | | | | | |
| 34 | 28 | 1 | 3 | 2 | 1 | 1 | 1 | 1 | 1 | 2 | 1 | 4 | 1 | 1 | 26 | 20 | 2 | 1 | 1 | 1 | 2 | 1 | 1 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 6 | 1 | N | N | N | N | N | NO | PHY | | | | | | |
| 35 | 45 | 1 | 3 | 0 | 1 | 1 | 1 | 1 | 1 | 2 | 1 | 4 | 1 | 1 | 44 | 365 | 1 | 1,3 | 7 | 2 | 2 | 2 | 3 | 1 | 1 | 2 | 1 | 1 | 1 | 1 | 1 | 4,5 | 1 | N | N | N | N | N | NO | CAN | | | | | | |
| 36 | 27 | 2 | 2 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 4 | 1 | 1 | 29 | 90 | 1 | 6 | 1 | 1 | 2 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 3,4 | 1 | N | N | N | N | N | NO | MPC | | | | | | |
| 37 | 35 | 1 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 4 | 4 | 1 | 35 | 25 | 2 | 6 | 1 | 1 | 2 | 1 | 1 | 6 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 6 | 1 | N | N | N | N | N | NO | NV | | | | | | |
| 38 | 23 | 1 | 2 | 2 | 1 | 1 | 3 | 1 | 2 | 2 | 1 | 4 | 1 | 1 | 23 | 25 | 2 | 1 | 1 | 2 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 3 | 2 | 4,5 | 6 | N | N | N | N | N | NO | CAN | | | | | | |
| 39 | 35 | 2 | 3 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 4 | 1 | 1 | 35 | 15 | 2 | 6 | 1 | 1 | 2 | 2 | 1 | 6 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 6 | 1 | N | N | N | N | N | NO | NV | | | | | | |
| 40 | 40 | 1 | 3 | 2 | 1 | 1 | 1 | 2 | 1 | 1 | 1 | 4 | 1 | 1 | 40 | 20 | 1 | 8 | 3 | 2 | 2 | 1 | 1 | 2 | 1 | 2 | 1 | 1 | 1 | 1 | 1 | 3,4 | 1 | N | N | N | N | N | NO | MPC | | | | | | |
| 41 | 22 | 1 | 1 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 4 | 2 | 1 | 22 | 30 | 2 | 1,3 | 1 | 1 | 2 | 1 | 1 | 3 | 2 | 1 | 1 | 2 | 2 | 4 | 1 | 1,2 | 1 | N | N | N | N | N | NO | BV | | | | | | |

SYMPTOMATIC PATIENTS

| DEMOGRAPHIC, BEHAVIOUR AND REPRODUCTIVE HISTORY | | | | | | | | | | | | | | | DISEASE CHARACTERISTICS & GENITAL EXAMINATION | | | | | | | | | | | | | | | INVESTIGATIONS | | | | | | | | | | DIAGNOSIS | |
|-------------------------------------------------|-----------|-----------|-----------|--------------------|----------------|--------------------------|-----------------------------------|-----------------------------|---------------|-------------------|---------------------|--------------------------|------------------------------------|-----------------|-----------------------------------------------|--------------------------------------|--------------------------|--------|--------------------|----------------|-------------------|------------------|-----------------|-----------------------|------------------|----------------------|--------------------|----------|------------|----------------|-----------|------------|-----------|--------------------------------|--------------------------------|--------------------------------|-----|------|----------------|-----------|--|
| serial no. | Age (yrs) | Residence | SE status | Educational status | Marital status | Pre/extramartial contact | Husband with extramarital contact | Involvement in prostitution | Contraception | obstetric history | Symptoms in partner | Past H/o PID/Infertility | Treatment received within 3 months | Substance abuse | Age at onset (yrs) | Duration of vaginal discharge (days) | Relation to menstruation | others | Vulvar examination | Genital ulcers | vaginal discharge | Discharge amount | Discharge odour | Discharge consistency | Discharge colour | Cervical examination | Adnexal tenderness | pH range | Whiff test | Wet mount | KOH mount | Gram stain | Pap Smear | Trichomonas culture on 3rd day | Trichomonas culture on 5th day | Trichomonas culture on 7th day | HIV | VDRL | Coexisting STI | Diagnosis | |
| 42 | 39 | 2 | 3 | 3 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 4 | 1 | 1 | 38 | 20 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | N | N | N | N | N | NO | PHY | |
| 43 | 28 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 1 | 4 | 1 | 1 | 28 | 7 | 2 | 1 | 1 | 1 | 2 | 2 | 1 | 3 | 1 | 1 | 1 | 1 | 4 | 2 | 1 | 1 | 1 | N | N | N | N | N | NO | BV | |

SYMPTOMATIC PATIENTS

| Demographic, Behaviour and Reproductive History | | | | | | | | | | | | | | | Disease Characteristics & Genital Examination | | | | | | | | | | | | | | | Investigations | | | | | | | | | | Diagnosis | | |
|-------------------------------------------------|-----------|-----------|------------|--------------------|----------------|--------------------------|-----------------------------------|-----------------------------|---------------|-------------------|---------------------|--------------------------|------------------------------------|-----------------|-----------------------------------------------|--------------------------------------|-------------------------|--------|--------------------|----------------|-------------------|------------------|-----------------|-----------------------|------------------|----------------------|--------------------|----------|------------|----------------|-----------|------------|-----------|----------------------------------|----------------------------------|----------------------------------|-----|------|----------------|-----------|-------------------|-----|
| Serial no. | Age (yrs) | Residence | SES status | Educational status | Marital status | Pre/extramarital contact | Husband with extramarital contact | Involvement in prostitution | Contraception | obstetric history | Symptoms in partner | Past I/O STD/Infertility | Treatment received within 3 months | Substance abuse | Age at onset (yrs) | Duration of vaginal discharge (days) | Relation to men tuation | others | Vulvar examination | Genital ulcers | vaginal discharge | Discharge amount | Discharge odour | Discharge consistency | Discharge colour | Cervical examination | Adnexal tenderness | pH range | Whiff test | Wet mount | KOH mount | Gram stain | Pap Smear | Trichomonas c culture on 3rd day | Trichomonas c culture on 5th day | Trichomonas c culture on 7th day | HIV | VDRL | Coexisting STI | Diagnosis | | |
| 44 | 33 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 4 | 1 | 1 | 33 | 365 | 1 | 1 | 1 | 1 | 2 | 2 | 1 | 3 | 1 | 1 | 1 | 1 | 1 | 2 | 3 | 2 | 5 | 1 | N | N | N | N | N | NO | CAN | |
| 45 | 38 | 1 | 3 | 3 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 4 | 1 | 1 | 38 | 20 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | N | N | N | N | N | NO | PHY | |
| 46 | 32 | 1 | 3 | 2 | 1 | 1 | 1 | 1 | 1 | 2 | 1 | 4 | 1 | 1 | 32 | 20 | 1 | 3 | 1 | 1 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 6 | 1 | N | N | N | N | N | NO | PHY | |
| 47 | 30 | 1 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 1 | 4 | 1 | 1 | 30 | 15 | 1 | 1 | 1 | 1 | 2 | 2 | 1 | 3 | 2 | 1 | 1 | 2 | 2 | 4 | 1 | 1 | 1 | N | N | N | N | N | NO | BV | | |
| 48 | 28 | 1 | 3 | 3 | 1 | 1 | 1 | 1 | 2 | 1 | 1 | 4 | 1 | 1 | 28 | 7 | 2 | 6 | 1 | 1 | 2 | 2 | 1 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 6 | 1 | N | N | N | N | N | NO | PHY | |
| 49 | 36 | 1 | 3 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 4 | 1 | 1 | 30 | 15 | 1 | 1 | 1 | 1 | 2 | 3 | 3 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 3 | 2 | 5 | 1 | N | N | N | N | N | NO | CAN | |
| 50 | 30 | 2 | 3 | 0 | 1 | 1 | 1 | 1 | 2 | 3 | 5 | 3 | 1 | 1 | 30 | 60 | 2 | 3 | 1 | 1 | 2 | 2 | 3 | 4 | 3 | 1 | 1 | 2 | 2 | 2 | 4 | 1 | 1 | 1 | P | P | P | N | N | YES tv/bv | TV/BV | |
| 51 | 26 | 1 | 3 | 1 | 1 | 1 | 1 | 1 | 2 | 1 | 1 | 1 | 1 | 1 | 26 | 7 | 1 | 6 | 1 | 1 | 2 | 1 | 1 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 6 | 1 | N | N | N | N | N | NO | PHY | |
| 52 | 32 | 1 | 3 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 4 | 1 | 1 | 30 | 15 | 1 | 1 | 1 | 1 | 2 | 3 | 3 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 3 | 2 | 5 | 1 | N | N | N | N | N | NO | CAN | |
| 53 | 30 | 1 | 3 | 3 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 4 | 1 | 1 | 38 | 20 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | N | N | N | N | N | NO | PHY | |
| 54 | 25 | 2 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 4 | 1 | 1 | 24 | 15 | 2 | 6 | 1 | 1 | 2 | 1 | 1 | 6 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 6 | 1 | N | N | N | N | N | NO | NV | |
| 55 | 40 | 1 | 1 | 5 | 2 | 2 | 4 | 2 | 4 | 3 | 1 | 3 | 1 | 1 | 38 | 7 | 2 | 1 | 1 | 1 | 2 | 3 | 2 | 4 | 1 | 2 | 1 | 1 | 2 | 2 | 1 | 1 | 1 | 1 | P | P | N | N | N | YES | TV/BV | |
| 56 | 40 | 1 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 4 | 1 | 1 | 40 | 10 | 1 | 6 | 1 | 1 | 2 | 1 | 1 | 2 | 1 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 6 | 1 | N | N | N | N | N | NO | PHY | |
| 57 | 48 | 2 | 3 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 4 | 1 | 1 | 48 | 30 | 7 | 2 | 2 | 1 | 2 | 2 | 2 | 1 | 1 | 2 | 2 | 2 | 1 | 1 | 1 | 3,4 | 1 | N | N | N | N | N | NO | MPC | | |
| 58 | 54 | 1 | 3 | 2 | 1 | 2 | 3 | 2 | 2 | 1 | 1 | 4 | 1 | 1 | 54 | 2 | 1 | 1 | 1 | 1 | 2 | 2 | 3 | 1 | 1 | 1 | 1 | 1 | 2 | 3 | 2 | 5,4 | 1 | N | N | N | N | N | NO | CAN | | |
| 59 | 37 | 1 | 2 | 2 | 1 | 1 | 1 | 3 | 1 | 1 | 1 | 4 | 1 | 1 | 37 | 15 | 1 | 8 | 1 | 1 | 2 | 1 | 1 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 6 | 1 | N | N | N | N | N | NO | BC/PHY | |
| 60 | 52 | 1 | 3 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 4 | 1 | 1 | 40 | 7 | 1 | 1 | 1 | 2 | 1 | 1 | 2 | 1 | 1 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 6 | 1 | N | N | N | N | N | NO | PHY |
| 61 | 40 | 1 | 3 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 4 | 1 | 1 | 40 | 14 | 1 | 6 | 1 | 1 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | N | N | N | N | N | NO | PHY | |
| 62 | 34 | 1 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 4 | 4 | 1 | 33 | 15 | 2 | 6 | 1 | 1 | 2 | 1 | 1 | 6 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 6 | 1 | N | N | N | N | N | NO | NV | |
| 63 | 52 | 1 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 1 | 4 | 1 | 1 | 45 | 6m | 1 | 1 | 1 | 1 | 2 | 2 | 1 | 1 | 3 | 2 | 1 | 1 | 2 | 2 | 4 | 1 | 1 | 1 | N | N | N | N | N | NO | BV | |
| 64 | 40 | 1 | 3 | 3 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 4 | 1 | 1 | 40 | 20 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 6 | 1 | N | N | N | N | N | NO | PHY |
| 65 | 34 | 1 | 4 | 2 | 1 | 1 | 1 | 2 | 2 | 1 | 1 | 4 | 1 | 1 | 33 | 45 | 1 | 6 | 1 | 1 | 2 | 3 | 1 | 5 | 3 | 1 | 1 | 2 | 1 | 2 | 1 | 6 | 1 | P | P | N | N | N | NO | TV | | |
| 66 | 49 | 1 | 2 | 2 | 1 | 2 | 3 | 2 | 1 | 1 | 3 | 4 | 1 | 1 | 40 | 7 | 2 | 1,3 | 1 | 1 | 2 | 2 | 2 | 4 | 3 | 1 | 1 | 2 | 2 | 2 | 1 | 4 | 1 | P | P | P | N | N | YES | TV/MPC | | |
| 67 | 25 | 1 | 2 | 2 | 1 | 1 | 3 | 1 | 1 | 1 | 1 | 6,3 | 4 | 1 | 24 | 7 | 1 | 1,7 | 4 | 2 | 2 | 2 | 1 | 5 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 5 | 1 | N | N | N | N | P | NO | SY2/CAN | |
| 68 | 20 | 1 | 2 | 1 | 2 | 2 | 4 | 1 | 4 | 4 | 6 | 4 | 1 | 1 | 19 | 60 | 2 | 3 | 1 | 1 | 1 | 1 | 1 | 2 | 1 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 6 | 1 | N | N | N | N | N | NO | PHY | |
| 69 | 26 | 1 | 3 | 1 | 1 | 1 | 3 | 1 | 2 | 3 | 1 | 4 | 1 | 1 | 26 | 90 | 2 | 1 | 1 | 2 | 1 | 1 | 1 | 5 | 1 | 1 | 1 | 2 | 2 | 2,4 | 1 | 1 | 1 | 1 | P | P | P | N | N | NO | TV/BV | |
| 70 | 50 | 2 | 2 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 4 | 1 | 1 | 50 | 30 | 1 | 1,2 | 2 | 1 | 2 | 1 | 1 | 3 | 2 | 1 | 1 | 2 | 2 | 4 | 1 | 1 | 1 | 1 | N | N | N | N | P | NO | BV/SY | |
| 71 | 55 | 1 | 3 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 4 | 1 | 1 | 55 | 7 | 1 | 6 | 1 | 1 | 2 | 2 | 1 | 5 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 6 | 1 | N | N | N | N | N | NO | PHY | |
| 72 | 39 | 1 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 4 | 1 | 1 | 39 | 14 | 1 | 6 | 1 | 1 | 2 | 1 | 1 | 6 | 1 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 4,3 | 1 | N | N | N | N | N | NO | MPC | |
| 73 | 35 | 1 | 3 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 4 | 1 | 1 | 34 | 15 | 1 | 6 | 1 | 1 | 2 | 1 | 1 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 6 | 1 | N | N | N | N | N | NO | PHY | |
| 74 | 28 | 2 | 2 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 4 | 1 | 1 | 27 | 6 | 2 | 1 | 1 | 2 | 2 | 2 | 1 | 3 | 2 | 1 | 1 | 2 | 2 | 4 | 1 | 1,4 | 1 | N | N | N | N | N | NO | MPC/BV | | |
| 75 | 36 | 1 | 3 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 4 | 1 | 1 | 36 | 30 | 1 | 6 | 1 | 1 | 2 | 1 | 1 | 5 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 6 | 1 | N | N | N | N | N | NO | PHY | |
| 76 | 29 | 1 | 4 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 4 | 1 | 1 | 29 | 7 | 1 | 6 | 1 | 1 | 2 | 1 | 1 | 6 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 6 | 1 | N | N | N | N | N | NO | PHY | |
| 77 | 22 | 1 | 2 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 4 | 1 | 1 | 22 | 15 | 1 | 1 | 1 | 1 | 2 | 2 | 2 | 3 | 2 | 1 | 1 | 2 | 2 | 4 | 1 | 1 | 1 | 1 | N | N | N | N | N | NO | BV | |
| 78 | 30 | 1 | 4 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 4 | 2 | 1 | 30 | 7 | 1 | 1 | 1 | 1 | 2 | 1 | 1 | 6 | 1 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 4 | 1 | N | N | N | N | N | NO | MPC | |
| 79 | 34 | 1 | 3 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 4 | 6 | 4 | 1 | 1 | 30 | 1y | 2 | 1,3 | 3 | 1 | 2 | 2 | 2 | 3 | 3 | 5 | 1 | 2 | 2 | 1 | 1 | 3,4 | 1 | N | N | N | P | N | NO | VERRUCOUS HSV/HIV | |
| 80 | 28 | 1 | 4 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 4 | 1 | 1 | 28 | 15 | 1 | 6 | 1 | 1 | 2 | 1 | 1 | 6 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 6 | 1 | N | N | N | N | N | NO | PHY | |
| 81 | 30 | 1 | 4 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 4 | 1 | 1 | 30 | 30 | 1 | 6 | 1 | 1 | 2 | 1 | 1 | 6 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 6 | 1 | N | N | N | N | N | NO | NV | |
| 82 | 39 | 1 | 2 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 4 | 1 | 1 | 39 | 7 | 1 | 1 | 1 | 1 | 2 | 2 | 1 | 5 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 6 | 1 | N | N | N | N | N | NO | NV | |
| 83 | 34 | 2 | 3 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 6 | 4 | 1 | 1 | 34 | 60 | 1 | 6 | 2 | 1 | 2 | 2 | 1 | 2 | 2 | 1 | 1 | 2 | 2 | 4 | 2 | 1 | 1 | N | N | N | P | N | NO | BV/HIV | | |
| 84 | 22 | 1 | 3 | 2 | 1 | 1 | 1 | 1 | 3 | 4 | 1 | 4 | 1 | 1 | 22 | 25 | 1 | 6 | 1 | 1 | 2 | 1 | 1 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 6 | 1 | N | N | N | N | N | NO | PHY | |

SYMPTOMATIC PATIENTS

| DEMOGRAPHIC, BEHAVIOUR AND REPRODUCTIVE HISTORY | | | | | | | | | | | | | | | | DISEASE CHARACTERISTICS & GENITAL EXAMINATION | | | | | | | | | | | | INVESTIGATIONS | | | | | | | | | | DIAGNOSIS | | |
|-------------------------------------------------|-----------|-----------|-----------|--------------------|----------------|--------------------------|-----------------------------------|-----------------------------|---------------|-------------------|---------------------|--------------------------|------------------------------------|-----------------|--------------------|-----------------------------------------------|--------------------------|--------|--------------------|----------------|-------------------|------------------|-----------------|-----------------------|------------------|----------------------|--------------------|----------------|------------|-----------|-----------|------------|-----------|--------------------------------|--------------------------------|--------------------------------|-----|-----------|----------------|-----------|
| serial no. | Age (yrs) | Residence | SE status | Educational status | Marital status | Pre/extramarital contact | Husband with extramarital contact | Involvement in prostitution | Contraception | obstetric history | Symptoms in partner | Past H/o PID/Infertility | Treatment received within 3 months | Substance abuse | Age at onset (yrs) | Duration of vaginal discharge (days) | Relation to menstruation | others | Vulvar examination | Genital ulcers | vaginal discharge | Discharge amount | Discharge odour | Discharge consistency | Discharge colour | Cervical examination | Adnexal tenderness | pH range | Whiff test | Wet mount | KOH mount | Gram stain | Pap Smear | Trichomonas culture on 3rd day | Trichomonas culture on 5th day | Trichomonas culture on 7th day | HIV | VDRL | Coexisting STI | Diagnosis |
| 85 | 31 | 1 | 3 | 2 | 1 | 1 | 1 | 1 | 3 | 1 | 1 | 4 | 1 | 1 | 31 | 15 | 1 | 6 | 1 | 1 | 2 | 3 | 1 | 2 | 2 | 1 | 1 | 2 | 1 | 4 | 2 | 1 | 1 | N | N | N | N | N | NO | BV |
| 86 | 43 | 1 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 4 | 1 | 1 | 43 | 25 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | N | N | N | N | N | NO | PHY |

SYMPTOMATIC PATIENTS

| Demographic, Behaviour and Reproductive History | | | | | | | | | | | | | | | Disease Characteristics & Genital Examination | | | | | | | | | | | | | | | Investigations | | | | | | | | | | | | | | | Diagnosis | |
|-------------------------------------------------|-----------|-----------|------------|--------------------|----------------|--------------------------|-----------------------------------|-----------------------------|---------------|-------------------|---------------------|--------------------------|------------------------------------|-----------------|-----------------------------------------------|--------------------------------------|--------------------------|--------|--------------------|----------------|-------------------|------------------|-----------------|-----------------------|------------------|----------------------|--------------------|----------|------------|----------------|-----------|------------|-----------|--------------------------------|--------------------------------|--------------------------------|-----|------|----------------|-----------|-----|--|--|--|-----------|--|
| Serial no. | Age (yrs) | Residence | SES status | Educational status | Marital status | Pre/extramartial contact | Husband with extramarital contact | Involvement in prostitution | Contraception | Obstetric history | Symptoms in partner | Past I/O PID/Infertility | Treatment received within 3 months | Substance abuse | Age at onset (yrs) | Duration of vaginal discharge (days) | Relation to menstruation | Others | Vulvar examination | Genital ulcers | Vaginal discharge | Discharge amount | Discharge odour | Discharge consistency | Discharge colour | Cervical examination | Adnexal tenderness | pH range | Whiff test | Wet mount | KOH mount | Gram stain | Pap Smear | Trichomonas culture on 3rd day | Trichomonas culture on 5th day | Trichomonas culture on 7th day | HIV | VDRL | Coexisting STI | Diagnosis | | | | | | |
| 87 | 45 | 1 | 3 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 4 | 1 | 1 | 45 | 7 | 1 | 6 | 1 | 1 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 3 | 2 | 5 | 1 | N | N | N | N | N | NO | CAN | | | | | |
| 88 | 28 | 1 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 4 | 1 | 1 | 28 | 14 | 1 | 1 | 1 | 1 | 2 | 3 | 1 | 6 | 3 | 2 | 1 | 1 | 1 | 1 | 1 | 4,3 | 1 | N | N | N | N | N | NO | MPC | | | | | | |
| 89 | 38 | 1 | 2 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 4 | 1 | 1 | 37 | 15 | 1 | 1 | 1 | 1 | 2 | 2 | 2 | 3 | 2 | 1 | 1 | 2 | 2 | 4 | 1 | 1 | 1 | N | N | N | N | N | NO | BV | | | | | | |
| 90 | 25 | 1 | 3 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 4 | 1 | 1 | 20 | 30 | 1 | 6 | 1 | 1 | 2 | 1 | 1 | 6 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 6 | 1 | N | N | N | N | N | NO | NV | | | | | | |
| 91 | 23 | 1 | 4 | 3 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 4 | 1 | 1 | 19 | 3m | 1 | 6 | 1 | 1 | 2 | 1 | 1 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 6 | 1 | N | N | N | N | N | NO | PHY | | | | | | |
| 92 | 20 | 1 | 3 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 4 | 1 | 1 | 20 | 25 | 1 | 6 | 1 | 1 | 2 | 2 | 1 | 6 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 6 | 1 | N | N | N | N | N | NO | NV | | | | | | |
| 93 | 22 | 1 | 4 | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 1 | 4 | 1 | 1 | 22 | 10 | 1 | 1 | 1 | 1 | 2 | 1 | 1 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 6 | 1 | N | N | N | N | N | NO | PHY | | | | | | |
| 94 | 40 | 2 | 3 | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 1 | 4 | 1 | 1 | 40 | 1m | 1 | 6 | 1 | 1 | 2 | 1 | 1 | 6 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 6 | 1 | N | N | N | N | N | NO | PHY | | | | | | |
| 95 | 28 | 1 | 3 | 2 | 1 | 1 | 1 | 1 | 3 | 1 | 1 | 4 | 1 | 1 | 28 | 15 | 1 | 1,2 | 1 | 1 | 2 | 3 | 1 | 2 | 2 | 1 | 1 | 2 | 2 | 4 | 2 | 1 | 1 | N | N | N | N | N | NO | BV | | | | | | |
| 96 | 18 | 1 | 4 | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 1 | 4 | 1 | 1 | 18 | 15 | 1 | 6 | 1 | 1 | 2 | 1 | 1 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 6 | 1 | N | N | N | N | N | NO | PHY | | | | | | |
| 97 | 24 | 1 | 4 | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 1 | 4 | 1 | 1 | 24 | 1m | 1 | 1 | 1 | 1 | 2 | 1 | 1 | 5 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 6 | 1 | N | N | N | N | N | NO | PHY | | | | | | |
| 98 | 40 | 1 | 3 | 2 | 1 | 1 | 1 | 1 | 3 | 1 | 1 | 4 | 1 | 1 | 40 | 15 | 1 | 1,2 | 1 | 1 | 2 | 3 | 1 | 2 | 2 | 1 | 1 | 2 | 2 | 4 | 2 | 1 | 1 | N | N | N | N | N | NO | BV | | | | | | |
| 99 | 55 | 1 | 3 | 3 | 1 | 1 | 1 | 1 | 2 | 1 | 1 | 4 | 1 | 1 | 55 | 3m | 1 | 1 | 1 | 1 | 2 | 2 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 3 | 2 | 6 | 1 | N | N | N | N | N | NO | CAN | | | | | |
| 100 | 20 | 1 | 3 | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 1 | 4 | 1 | 1 | 35 | 5m | 1 | 1 | 1 | 1 | 2 | 1 | 1 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 6 | 1 | N | N | N | N | N | NO | PHY | | | | | | |
| 101 | 39 | 1 | 3 | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 1 | 4 | 1 | 1 | 35 | 5m | 1 | 1 | 1 | 1 | 2 | 21 | 1 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 6 | 1 | N | N | N | N | N | NO | PHY | | | | | | |
| 102 | 30 | 1 | 2 | 1 | 1 | 1 | 3 | 1 | 2 | 1 | 1 | 4 | 1 | 1 | 30 | 25 | 1 | 1,2 | 1 | 1 | 2 | 1 | 3 | 1 | 1 | 1 | 1 | 1 | 2 | 3 | 2 | 5 | 1 | N | N | N | N | N | NO | CAN | | | | | | |
| 103 | 40 | 1 | 3 | 1 | 1 | 1 | 3 | 1 | 1 | 1 | 2 | 4 | 1 | 1 | 40 | 1m | 1 | 1 | 1 | 1 | 3 | 2 | 3 | 2 | 1 | 1 | 2 | 2 | 4 | 1 | 1 | 1 | N | N | N | N | N | NO | BV | | | | | | | |
| 104 | 26 | 1 | 4 | 2 | 1 | 1 | 1 | 1 | 3 | 1 | 1 | 4 | 1 | 1 | 26 | 30 | 1 | 6 | 1 | 1 | 2 | 1 | 2 | 4 | 3 | 2 | 1 | 2 | 2 | 1 | 1 | 6 | 1 | N | N | N | N | N | NO | PHY | | | | | | |
| 105 | 28 | 1 | 4 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 4 | 1 | 1 | 28 | 45 | 1 | 6 | 1 | 1 | 2 | 3 | 1 | 5 | 3 | 1 | 1 | 2 | 1 | 2 | 1 | 6 | 2 | P | P | P | N | N | NO | TV | | | | | | |
| 106 | 28 | 1 | 4 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 4 | 1 | 1 | 26 | 2y | 2 | 1,3 | 1 | 1 | 2 | 2 | 2 | 5 | 1 | 1 | 1 | 2 | 1 | 2 | 1 | 4 | 1 | P | P | P | N | N | YES | TV/MPC | | | | | | |
| 107 | 40 | 1 | 3 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 4 | 1 | 1 | 40 | 5 | 1 | 6 | 1 | 1 | 2 | 1 | 1 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 6 | 1 | N | N | N | N | N | NO | PHY | | | | | | |
| 108 | 41 | 1 | 3 | 2 | 1 | 1 | 3 | 1 | 1 | 2 | 1 | 4 | 1 | 1 | 40 | 20 | 1 | 1,3 | 1 | 1 | 2 | 2 | 1 | 4 | 1 | 1 | 1 | 1 | 1 | 2 | 1 | 2 | 2 | P | P | N | N | N | YES | TV/MPC | | | | | | |
| 109 | 28 | 1 | 3 | 2 | 1 | 1 | 1 | 3 | 1 | 1 | 2 | 1 | 4 | 1 | 28 | 14 | 1 | 7 | 1 | 2 | 2 | 1 | 1 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 6 | 1 | N | N | N | N | N | NO | HERPES | | | | | | |
| 110 | 40 | 1 | 3 | 1 | 1 | 1 | 3 | 1 | 1 | 1 | 1 | 5 | 3 | 1 | 39 | 1y | 1 | 1 | 1 | 1 | 2 | 1 | 1 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 6 | 1 | P | N | N | N | N | NO | TV | | | | | | |
| 111 | 37 | 1 | 3 | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 1 | 4 | 1 | 0 | 35 | 5m | 1 | 1 | 1 | 1 | 2 | 1 | 1 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 6 | 1 | N | N | N | N | N | NO | PHY | | | | | | |
| 112 | 48 | 2 | 3 | 5 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 3 | 1 | 1 | 40 | 365 | 1 | 3 | 1 | 1 | 1 | 1 | 2 | 3 | 1 | 1 | 1 | 2 | 2 | 4 | 1 | 1 | 1 | N | N | N | N | N | NO | BV | | | | | | |
| 113 | 35 | 1 | 3 | 1 | 1 | 1 | 2 | 1 | 1 | 1 | 1 | 1 | 4 | 0 | 35 | 14 | 2 | 3 | 2 | 1 | 2 | 2 | 2 | 4 | 1 | 1 | 1 | 2 | 1 | 1 | 1 | 1 | 1 | P | P | P | N | N | YES | TV/BV | | | | | | |
| 114 | 45 | 1 | 3 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 45 | 60 | 1 | 3 | 1 | 1 | 1 | 2 | 1 | 5 | 1 | 1 | 2 | 1 | 1 | 1 | 1 | 4 | 1 | N | N | N | N | N | NO | MPC | | | | | | |
| 115 | 44 | 1 | 3 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 7 | 4 | 1 | 44 | 6m | 2 | 1 | 1 | 1 | 2 | 2 | 2 | 1 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 6 | 1 | N | N | N | N | N | NO | PHY | | | | | | |
| 116 | 50 | 2 | 4 | 1 | 1 | 2 | 1 | 2 | 1 | 1 | 6 | 4 | 1 | 1 | 50 | 90 | 1 | 1,5 | 2 | 1 | 2 | 1 | 2 | 1 | 3 | 2 | 2 | 1 | 1 | 1 | 1 | 4,3 | 7 | N | N | N | N | N | NO | CACERVIX | | | | | | |
| 117 | 40 | 1 | 4 | 0 | 1 | 1 | 3 | 1 | 4 | 4 | 3 | 2 | 1 | 1 | 30 | 30 | 2 | 8 | 1 | 1 | 1 | 2 | 2 | 4 | 1 | 1 | 1 | 2 | 2 | 2 | 1 | 4 | 2 | P | P | P | N | N | YES | TV/MPC | | | | | | |
| 118 | 38 | 1 | 3 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 1 | 4 | 1 | 1 | 38 | 1m | 1 | 1,3 | 1 | 2 | 2 | 2 | 1 | 6 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 3,4 | 1 | N | N | N | N | N | NO | MPC | | | | | | |
| 119 | 35 | 1 | 3 | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 1 | 4 | 1 | 0 | 35 | 5m | 1 | 1 | 1 | 1 | 2 | 1 | 1 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 6 | 1 | N | N | N | N | N | NO | PHY | | | | | | |
| 120 | 20 | 1 | 2 | 2 | 1 | 1 | 1 | 1 | 1 | 2 | 1 | 4 | 1 | 1 | 20 | 3y | 1 | 6 | 1 | 1 | 1 | 2 | 1 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 6 | 1 | N | N | N | N | N | NO | PHY | | | | | | |
| 121 | 26 | 2 | 3 | 1 | 1 | 1 | 1 | 2 | 2 | 1 | 1 | 4 | 1 | 0 | 35 | 5m | 1 | 1 | 1 | 1 | 2 | 1 | 1 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 6 | 1 | N | N | N | N | N | NO | PHY | | | | | | |
| 122 | 55 | 1 | 3 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 4 | 1 | 1 | 55 | 1m | 1 | 2 | 1 | 1 | 2 | 2 | 1 | 6 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 6 | 1 | N | N | N | N | N | NO | NV | | | | | |
| 123 | 30 | 1 | 2 | 1 | 1 | 1 | 3 | 1 | 1 | 4 | 1 | 4 | 1 | 1 | 30 | 15 | 1 | 1 | 1 | 1 | 2 | 3 | 2 | 3 | 1 | 1 | 1 | 2 | 2 | 4 | 2 | 6 | 1 | N | N | N | N | N | NO | BV | | | | | | |
| 124 | 21 | 1 | 4 | 2 | 1 | 2 | 2 | 4 | 2 | 4 | 4 | 1 | 4 | 1 | 18 | 60 | 2 | 1,3 | 1 | 1 | 2 | 2 | 2 | 4 | 1 | 1 | 1 | 2 | 2 | 1 | 3 | 1 | 2 | P | P | N | N | N | YES | TV/BV | | | | | | |
| 125 | 45 | 1 | 2 | 1 | 1 | 1 | 3 | 1 | 2 | 1 | 1 | 4 | 1 | 1 | 52 | 1 | 1 | 1,2 | 1 | 1 | 2 | 1 | 3 | 1 | 1 | 1 | 1 | 2 | 4 | 2 | 5 | 1 | N | N | N | N | N | NO | CAN | | | | | | | |
| 126 | 17 | 1 | 4 | 2 | 2 | 2 | 4 | 2 | 4 | 4 | 1 | 4 | 1 | 1 | 16 | 365 | 2 | 6 | 1 | 1 | 2 | 3 | 2 | 4 | 1 | 5 | 1 | 2 | 2 | 2 | 1 | 1,3 | 1 | P | P | P | N | N | NO | TV | | | | | | |
| 127 | 32 | 1 | 3 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 7 | 4 | 1 | 1 | 33 | 5y | 1 | 3 | 1 | 1 | 2 | 2 | 1 | 5 | 1 | 2 | 1 | 1 | 1 | 1 | 1 | 3,4 | 1 | N | N | N | N | N | NO | MPC | | | | | | |

SYMPTOMATIC PATIENTS

| DEMOGRAPHIC, BEHAVIOUR AND REPRODUCTIVE HISTORY | | | | | | | | | | | | | | | | DISEASE CHARACTERISTICS & GENITAL EXAMINATION | | | | | | | | | | INVESTIGATIONS | | | | | | | | | | DIAGNOSIS | | | | | |
|-------------------------------------------------|-----------|-----------|-----------|--------------------|----------------|--------------------------|-----------------------------------|-----------------------------|---------------|-------------------|---------------------|--------------------------|------------------------------------|-----------------|--------------------|-----------------------------------------------|--------------------------|--------|--------------------|----------------|-------------------|------------------|-----------------|-----------------------|------------------|----------------------|--------------------|----------|------------|-----------|-----------|------------|-----------|--------------------------------|--------------------------------|--------------------------------|-----|------|----------------|-----------|-----|
| serial no. | Age (yrs) | Residence | SE status | Educational status | Marital status | Pre/extramarital contact | Husband with extramarital contact | Involvement in prostitution | Contraception | obstetric history | Symptoms in partner | Past H/o PID/Infertility | Treatment received within 3 months | Substance abuse | Age at onset (yrs) | Duration of vaginal discharge (days) | Relation to menstruation | others | Vulvar examination | Genital ulcers | vaginal discharge | Discharge amount | Discharge odour | Discharge consistency | Discharge colour | Cervical examination | Adnexal tenderness | pH range | Whiff test | Wet mount | KOH mount | Gram stain | Pap Smear | Trichomonas culture on 3rd day | Trichomonas culture on 5th day | Trichomonas culture on 7th day | HIV | VDRL | Coexisting STI | Diagnosis | |
| 128 | 38 | 1 | 3 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 1 | 4 | 1 | 1 | 33 | 2y | 12 | 1 | 1 | 2 | 2 | 1 | 2 | 6 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 3,4 | 1 | N | N | N | N | N | NO | MPC |
| 129 | 38 | 2 | 3 | 1 | 1 | 1 | 3 | 1 | 1 | 2 | 1 | 4 | 2 | 1 | 37 | 5 | 1 | 1,3 | 1 | 1 | 2 | 2 | 1 | 6 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 6 | 1 | N | N | N | N | N | NO | NV | |

SYMPTOMATIC PATIENTS

| Demographic, Behaviour and Reproductive History | | | | | | | | | | | | | | | Disease Characteristics & Genital Examination | | | | | | | | | | | | | | | Investigations | | | | | | | | | | | | | | | Diagnosis | |
|-------------------------------------------------|-----------|-----------|------------|--------------------|----------------|--------------------------|-----------------------------------|-----------------------------|---------------|-------------------|---------------------|--------------------------|------------------------------------|-----------------|-----------------------------------------------|--------------------------------------|-------------------------|--------|--------------------|----------------|-------------------|------------------|-----------------|-----------------------|------------------|----------------------|--------------------|----------|------------|----------------|-----------|------------|-----------|--------------------------------|--------------------------------|--------------------------------|-----|------|-----------------|------------|--|--|--|--|-----------|--|
| Serial no. | Age (yrs) | Residence | SES status | Educational status | Marital status | Pre/extramarital contact | Husband with extramarital contact | Involvement in prostitution | Contraception | Obstetric history | Symptoms in partner | Past I/O PID/Infertility | Treatment received within 3 months | Substance abuse | Age at onset (yrs) | Duration of vaginal discharge (days) | Relation to men tuation | others | Vulvar examination | Genital ulcers | vaginal discharge | Discharge amount | Discharge odour | Discharge consistency | Discharge colour | Cervical examination | Adnexal tenderness | pH range | Whiff test | Wet mount | KOH mount | Gram stain | Pap Smear | Trichomonas culture on 3rd day | Trichomonas culture on 5th day | Trichomonas culture on 7th day | HIV | VDRL | Coexisting STI | Diagnosis | | | | | | |
| 130 | 39 | 1 | 3 | 2 | 1 | 2 | 2 | 1 | 1 | 2 | 2 | 4 | 1 | 1 | 39 | 7 | 2 | 2,3 | 1 | 1 | 2 | 2 | 1 | 6 | 1 | 1 | 1 | 2 | 2 | 2 | 2 | 6 | 2 | P | P | P | N | N | NO | TV | | | | | | |
| 131 | 32 | 1 | 2 | 1 | 1 | 1 | 3 | 1 | 1 | 4 | 1 | 4 | 1 | 1 | 32 | 15 | 1 | 1 | 3 | 1 | 2 | 3 | 2 | 3 | 1 | 1 | 1 | 2 | 2 | 4 | 2 | 6 | 1 | N | N | N | N | N | NO | BV | | | | | | |
| 132 | 28 | 1 | 4 | 1 | 2 | 2 | 4 | 2 | 4 | 4 | 1 | 4 | 1 | 1 | 28 | 6m | 2 | 6 | 1 | 1 | 2 | 3 | 2 | 4 | 1 | 5 | 1 | 2 | 2 | 1 | 1,3 | 1 | P | P | P | N | N | NO | TV | | | | | | | |
| 133 | 39 | 1 | 2 | 1 | 1 | 1 | 3 | 1 | 1 | 4 | 1 | 4 | 1 | 1 | 39 | 1m | 1 | 1 | 1 | 1 | 2 | 3 | 2 | 3 | 1 | 1 | 1 | 2 | 2 | 4 | 2 | 6 | 1 | N | N | N | N | N | NO | BV | | | | | | |
| 134 | 36 | 2 | 3 | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 1 | 4 | 1 | 0 | 36 | 3m | 1 | 1 | 1 | 1 | 2 | 2 | 1 | 5 | 1 | 1 | 1 | 1 | 1 | 1 | 6 | 1 | N | N | N | N | N | NO | PHY | | | | | | | |
| 135 | 42 | 1 | 2 | 1 | 1 | 1 | 3 | 1 | 1 | 4 | 1 | 4 | 1 | 1 | 40 | 1y | 1 | 1 | 1 | 1 | 2 | 3 | 2 | 3 | 1 | 1 | 1 | 2 | 2 | 4 | 2 | 6 | 1 | N | N | N | N | N | NO | BV | | | | | | |
| 136 | 50 | 2 | 3 | 2 | 1 | 1 | 1 | 1 | 1 | 2 | 1 | 4 | 1 | 1 | 48 | 2y | 1 | 3 | 1 | 1 | 2 | 3 | 1 | 3 | 1 | 1 | 1 | 2 | 2 | 4 | 1 | 1 | 1 | N | N | N | N | N | NO | BV | | | | | | |
| 137 | 19 | 2 | 3 | 1 | 1 | 1 | 3 | 1 | 1 | 2 | 1 | 4 | 2 | 1 | 16 | 5 | 1 | 1,3 | 1 | 1 | 2 | 2 | 1 | 6 | 1 | 1 | 1 | 1 | 1 | 1 | 6 | 1 | N | N | N | N | N | NO | NV | | | | | | | |
| 138 | 25 | 1 | 3 | 1 | 1 | 1 | 4 | 1 | 1 | 1 | 1 | 4 | 1 | 1 | 24 | 30 | 1 | 6 | 1 | 1 | 2 | 1 | 1 | 6 | 1 | 1 | 1 | 1 | 1 | 1 | 6 | 1 | N | N | N | N | N | NO | PHY | | | | | | | |
| 139 | 23 | 1 | 4 | 1 | 1 | 1 | 3 | 1 | 1 | 2 | 1 | 4 | 2 | 1 | 20 | 30 | 1 | 1 | 1 | 1 | 2 | 3 | 1 | 6 | 1 | 1 | 1 | 1 | 1 | 1 | 6 | 1 | N | N | N | N | N | NO | PHY | | | | | | | |
| 140 | 37 | 2 | 2 | 2 | 1 | 2 | 1 | 1 | 1 | 1 | 4 | 1 | 1 | 1 | 37 | 60 | 1 | 1 | 2 | 2 | 1 | 2 | 2 | 2 | 2 | 1 | 1 | 1 | 2 | 1 | 1 | 1 | 1 | N | N | N | N | N | NO | BV | | | | | | |
| 141 | 32 | 1 | 4 | 2 | 1 | 2 | 2 | 4 | 2 | 4 | 4 | 1 | 4 | 1 | 32 | 60 | 2 | 1,3 | 1 | 1 | 2 | 2 | 2 | 4 | 1 | 1 | 1 | 2 | 2 | 1 | 3 | 1 | 1 | p | p | N | N | N | YES | TV/BV | | | | | | |
| 142 | 30 | 1 | 4 | 1 | 2 | 2 | 4 | 2 | 4 | 4 | 1 | 4 | 1 | 1 | 29 | 365 | 2 | 6 | 1 | 1 | 2 | 3 | 2 | 4 | 1 | 5 | 1 | 2 | 2 | 2 | 1 | 1,3 | 1 | p | p | p | N | N | NO | TV | | | | | | |
| 143 | 46 | 1 | 3 | 1 | 1 | 1 | 4 | 1 | 1 | 1 | 1 | 4 | 1 | 1 | 45 | 30 | 1 | 6 | 1 | 1 | 2 | 1 | 1 | 6 | 1 | 1 | 1 | 1 | 1 | 1 | 6 | 1 | N | N | N | N | N | NO | PHY | | | | | | | |
| 144 | 28 | 1 | 3 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 4 | 1 | 1 | 16 | 8y | 1 | 3 | 1 | 1 | 2 | 1 | 1 | 5 | 1 | 2 | 2 | 2 | 1 | 1 | 3 | 1 | N | N | N | N | N | NO | MPC | | | | | | | |
| 145 | 20 | 1 | 3 | 3 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 4 | 1 | 1 | 60 | 7 | 1 | 8 | 1 | 1 | 2 | 2 | 1 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 6 | 1 | N | N | N | N | N | NO | NV | | | | | | | |
| 146 | 26 | 1 | 3 | 2 | 1 | 1 | 1 | 1 | 1 | 4 | 6 | 4 | 1 | 1 | 23 | 3y | 2 | 3,2 | 1 | 1 | 2 | 2 | 1 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 3,4 | 1 | N | N | N | N | N | NO | MPC | | | | | | |
| 147 | 28 | 1 | 2 | 1 | 1 | 1 | 1 | 1 | 2 | 1 | 1 | 4 | 1 | 1 | 28 | 90 | 1 | 3,2 | 1 | 1 | 2 | 2 | 2 | 5 | 2 | 2 | 1 | 1 | 1 | 1 | 3,4 | 1 | N | N | N | N | N | NO | MPC | | | | | | | |
| 148 | 45 | 2 | 3 | 1 | 1 | 1 | 1 | 1 | 2 | 6 | 4 | 4 | 1 | 1 | 45 | 10 | 1 | 3 | 1 | 1 | 2 | 2 | 1 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 6 | 1 | N | N | N | N | N | NO | LAP | | | | | | | |
| 149 | 50 | 2 | 3 | 1 | 1 | 1 | 3 | 1 | 1 | 1 | 1 | 4 | 1 | 1 | 50 | 90 | 1 | 3 | 1 | 1 | 2 | 2 | 1 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 6 | 1 | N | N | N | N | N | NO | NV | | | | | | | |
| 150 | 28 | 2 | 3 | 2 | 1 | 1 | 1 | 1 | 1 | 2 | 4 | 4 | 1 | 1 | 28 | 3m | 1 | 6 | 1 | 1 | 2 | 1 | 1 | 5 | 1 | 2 | 1 | 2 | 2 | 1 | 1 | 1 | 1 | N | N | N | N | N | NO | MPC | | | | | | |
| 151 | 28 | 1 | 4 | 1 | 2 | 2 | 4 | 2 | 4 | 4 | 1 | 4 | 1 | 1 | 28 | 20 | 2 | 1 | 1 | 1 | 2 | 3 | 2 | 6 | 1 | 5 | 1 | 2 | 2 | 2 | 1 | 1,3 | 1 | P | P | P | N | N | NO | TV | | | | | | |
| 152 | 50 | 1 | 2 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 4 | 1 | 1 | 48 | 27 | 1 | 1,3 | 3 | 1 | 2 | 2 | 2 | 3 | 2 | 1 | 1 | 2 | 2 | 4 | 1 | 1 | 1 | N | N | N | N | N | NO | BV/BC | | | | | | |
| 153 | 29 | 2 | 2 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 4 | 1 | 1 | 28 | 10 | 1 | 1,3 | 1 | 1 | 2 | 1 | 1 | 5 | 1 | 2 | 1 | 2 | 1 | 4 | 1 | 1,3 | 1 | N | N | N | N | N | NO | BV/MPC | | | | | | |
| 154 | 29 | 1 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 4 | 1 | 1 | 18 | 80 | 2 | 1,2 | 1 | 1 | 2 | 2 | 2 | 4 | 3 | 2 | 2 | 2 | 2 | 2,4 | 1 | 4,3 | 1 | P | P | N | N | N | YES | TV/MPC/HSV | | | | | | |
| 155 | 45 | 1 | 4 | 0 | 1 | 1 | 1 | 1 | 2 | 1 | 1 | 4 | 1 | 1 | 52 | 7 | 1 | 1 | 1 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 3 | 2 | 3 | 1 | N | N | N | N | N | NO | CAN | | | | | | | |
| 156 | 40 | 1 | 2 | 1 | 1 | 1 | 3 | 1 | 1 | 4 | 1 | 4 | 1 | 1 | 39 | 1y | 1 | 1 | 1 | 1 | 2 | 2 | 1 | 2 | 1 | 1 | 1 | 2 | 3 | 2 | 2 | 6 | 1 | N | N | N | N | N | NO | CAN | | | | | | |
| 157 | 26 | 2 | 2 | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 6 | 4 | 1 | 1 | 26 | 60 | 2 | 8 | 1 | 1 | 2 | 2 | 1 | 4 | 2 | 1 | 1 | 2 | 1 | 4 | 1 | 1 | 1 | N | N | N | N | N | NO | BV/WART | | | | | | |
| 158 | 22 | 2 | 2 | 1 | 1 | 1 | 1 | 1 | 2 | 3 | 1 | 4 | 1 | 1 | 22 | 3 | 2 | 1,2 | 1 | 1 | 2 | 2 | 1 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 6 | 1 | N | N | N | P | N | NO | HIV | | | | | | |
| 159 | 42 | 2 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 4 | 1 | 1 | 42 | 10y | 1 | 2 | 1 | 1 | 2 | 2 | 1 | 3 | 2 | 1 | 1 | 2 | 2 | 4 | 1 | 1 | 1 | N | N | N | N | N | NO | BV | | | | | | |
| 160 | 30 | 1 | 1 | 2 | 1 | 1 | 1 | 1 | 1 | 2 | 1 | 4 | 1 | 0 | 30 | 6m | 1 | 2 | 1 | 12 | 2 | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 2 | 1 | 1 | 1 | 1 | n | N | N | N | N | NO | BV | | | | | | |
| 161 | 37 | 2 | 3 | 1 | 1 | 1 | 3 | 1 | 1 | 2 | 1 | 4 | 2 | 1 | 37 | 5 | 1 | 1,3 | 1 | 1 | 2 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 6 | 1 | N | N | N | N | N | NO | NV | | | | | | | |
| 162 | 52 | 1 | 2 | 1 | 1 | 1 | 3 | 1 | 2 | 1 | 1 | 4 | 1 | 1 | 52 | 1 | 1 | 1,2 | 1 | 1 | 2 | 1 | 3 | 1 | 1 | 1 | 1 | 1 | 2 | 4 | 2 | 5 | 1 | N | N | N | N | N | NO | CAN | | | | | | |
| 163 | 30 | 2 | 3 | 2 | 1 | 1 | 3 | 1 | 1 | 1 | 1 | 4 | 1 | 1 | 30 | 10 | 2 | 1 | 1 | 1 | 2 | 2 | 2 | 1 | 1 | 1 | 1 | 1 | 2 | 4 | 2 | 5 | 1 | N | N | N | N | N | NO | CAN | | | | | | |
| 164 | 28 | 1 | 3 | 2 | 1 | 1 | 1 | 1 | 2 | 2 | 1 | 4 | 1 | 1 | 30 | 14 | 1 | 3 | 1 | 1 | 2 | 1 | 1 | 6 | 1 | 1 | 2 | 1 | 1 | 1 | 6 | 1 | N | N | N | N | N | NO | NV | | | | | | | |
| 165 | 18 | 1 | 2 | 2 | 2 | 1 | 1 | 1 | 2 | 2 | 1 | 4 | 1 | 0 | 16 | 2y | 1 | 1 | 1 | 1 | 2 | 2 | 1 | 6 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 6 | 1 | N | N | N | N | N | NO | PHY | | | | | | |
| 166 | 28 | 2 | 4 | 3 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 4 | 1 | 1 | 28 | 1m | 1 | 6 | 1 | 1 | 2 | 3 | 1 | 5 | 1 | 1 | 1 | 1 | 1 | 1 | 6 | 1 | N | N | N | N | N | NO | NV | | | | | | | |
| 167 | 23 | 2 | 4 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 7 | 4 | 1 | 1 | 23 | 14 | 1 | 3 | 1 | 1 | 2 | 2 | 2 | 5 | 1 | 2 | 1 | 2 | 1 | 4 | 1 | 1,3 | 1 | N | N | N | N | N | NO | BV/MPC | | | | | | |
| 168 | 45 | 1 | 3 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 4 | 1 | 1 | 45 | 30 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 5 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 1 | 1 | N | N | N | N | N | NO | others | | | | | | |
| 169 | 21 | 1 | 3 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 4 | 1 | 1 | 21 | 10 | 1 | 1,3 | 1 | 1 | 2 | 1 | 1 | 5 | 1 | 2 | 1 | 2 | 1 | 4 | 1 | 1,3 | 1 | N | N | N | N | N | NO | BV/MPC | | | | | | |
| 170 | 43 | 1 | 3 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 7 | 4 | 1 | 1 | 43 | 7 | 1 | 1 | 1 | 1 | 2 | 2 | 1 | 6 | 4 | 1 | 1 | 1 | 1 | 1 | 6 | 1 | N | N | N | N | N | NO | GENITAL SCABIES | | | | | | | |

SYMPTOMATIC PATIENTS

| DEMOGRAPHIC, BEHAVIOUR AND REPRODUCTIVE HISTORY | | | | | | | | | | | | | | | | DISEASE CHARACTERISTICS & GENITAL EXAMINATION | | | | | | | | | | INVESTIGATIONS | | | | | | | | | | DIAGNOSIS | | | | |
|-------------------------------------------------|-----------|-----------|-----------|--------------------|----------------|--------------------------|-----------------------------------|-----------------------------|---------------|-------------------|---------------------|--------------------------|------------------------------------|-----------------|--------------------|-----------------------------------------------|--------------------------|--------|--------------------|----------------|-------------------|------------------|-----------------|-----------------------|------------------|----------------------|--------------------|----------|------------|-----------|-----------|------------|-----------|--------------------------------|--------------------------------|--------------------------------|-----|------|----------------|-----------|
| serial no. | Age (yrs) | Residence | SE status | Educational status | Marital status | Pre/extramartial contact | Husband with extramarital contact | Involvement in prostitution | Contraception | obstetric history | Symptoms in partner | Past N/G PID/Infertility | Treatment received within 3 months | Substance abuse | Age at onset (yrs) | Duration of vaginal discharge (days) | Relation to menstruation | others | Vulvar examination | Genital ulcers | vaginal discharge | Discharge amount | Discharge odour | Discharge consistency | Discharge colour | Cervical examination | Adnexal tenderness | pH range | Whiff test | Wet mount | KOH mount | Gram stain | Pap Smear | Trichomonas culture on 3rd day | Trichomonas culture on 5th day | Trichomonas culture on 7th day | HIV | VDRL | Coexisting STI | Diagnosis |
| 171 | 38 | 1 | 3 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 4 | 1 | 1 | 35 | 30 | 1 | 1,3 | 1 | 1 | 2 | 3 | 1 | 5 | 3 | 1 | 1 | 2 | 1 | 2 | 1 | 6 | 1 | P | P | P | N | N | NO | TV |
| 172 | 24 | 1 | 4 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 4 | 1 | 1 | 24 | 1m | 1 | 1 | 1 | 1 | 2 | 2 | 1 | 6 | 3 | 1 | 1 | 2 | 1 | 1 | 1 | 6 | 2 | P | P | P | N | N | NO | TV/CAN |

SYMPTOMATIC PATIENTS

| Demographic, Behaviour and Reproductive History | | | | | | | | | | | | | | | Disease Characteristics & Genital Examination | | | | | | | | | | | | | | | Investigations | | | | | | | | | | | | | | | Diagnosis | |
|-------------------------------------------------|-----------|-----------|------------|--------------------|----------------|------------------------|-----------------------------------|-----------------------------|------------|------------------|---------------------|--------------------------|------------------------------------|-----------------|-----------------------------------------------|--------------------------------------|--------------------------|--------|--------------------|----------------|-------------------|------------------|-----------------|-----------------------|------------------|----------------------|--------------------|----------|------------|----------------|-----------|------------|-----------|--------------------------------|--------------------------------|--------------------------------|-----|------|----------------|------------|-----------|--|--|--|-----------|--|
| Serial no. | Age (yrs) | Residence | SES status | Educational status | Marital status | Pre/extramural contact | Husband with extramarital contact | Involvement in prostitution | Condom use | Oral sex history | Symptoms in partner | Past I/O PID/Infertility | Treatment received within 3 months | Substance abuse | Age at onset (yrs) | Duration of vaginal discharge (days) | Relation to menstruation | others | Vulvar examination | Genital ulcers | vaginal discharge | Discharge amount | Discharge odour | Discharge consistency | Discharge colour | Cervical examination | Adnexal tenderness | pH range | Whiff test | Wet mount | KOH mount | Gram stain | Pap Smear | Trichomonas culture on 3rd day | Trichomonas culture on 5th day | Trichomonas culture on 7th day | HIV | VDRL | Coexisting STI | Diagnosis | | | | | | |
| 173 | 40 | 1 | 3 | 3 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 4 | 1 | 1 | 38 | 2y | 1 | 6 | 1 | 1 | 2 | 2 | 1 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 6 | 1 | N | N | N | N | N | NO | others | | | | | |
| 174 | 53 | 1 | 4 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 4 | 1 | 1 | 52 | 5m | 2 | 1 | 1 | 1 | 1 | 3 | 1 | 5 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2,3 | 1 | N | N | N | N | N | NO | others | | | | | |
| 175 | 39 | 1 | 3 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 4 | 1 | 1 | 38 | 2y | 1 | 3 | 1 | 1 | 1 | 2 | 2 | 5 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 6 | 1 | N | N | N | N | N | NO | PID | | | | | |
| 176 | 30 | 2 | 4 | 3 | 1 | 1 | 1 | 1 | 1 | 1 | 7 | 4 | 1 | 1 | 30 | 3m | 1 | 6 | 1 | 1 | 2 | 3 | 1 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 6 | 1 | N | N | N | N | N | NO | PHY | | | | | |
| 177 | 32 | 2 | 2 | 1 | 1 | 1 | 3 | 1 | 2 | 1 | 1 | 4 | 1 | 1 | 32 | 15 | 1 | 1,2 | 1 | 1 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 3 | 2 | 5 | 1 | N | N | N | N | N | NO | CAN | | | | | | |
| 178 | 55 | 1 | 4 | 3 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 4 | 1 | 1 | 55 | 7 | 1 | 6 | 1 | 1 | 2 | 2 | 1 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 6 | 1 | N | N | N | N | N | NO | PHY | | | | | |
| 179 | 39 | 1 | 3 | 1 | 1 | 1 | 1 | 1 | 3 | 1 | 7 | 4 | 1 | 1 | 39 | .. | 1 | 2,3 | 1 | 1 | 2 | 1 | 1 | 5 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 3 | 1 | N | N | N | N | N | NO | others | | | | | | |
| 180 | 28 | 2 | 4 | 2 | 1 | 1 | 3 | 1 | 1 | 1 | 2 | 4 | 1 | 1 | 27 | 15 | 1 | 2 | 1 | 1 | 1 | 3 | 2 | 3 | 2 | 1 | 1 | 2 | 2 | 4 | 1 | 1 | 1 | N | N | N | N | N | NO | BV | | | | | | |
| 181 | 28 | 2 | 3 | 2 | 1 | 2 | 4 | 2 | 4 | 4 | 1 | 4 | 1 | 1 | 25 | 6m | 2 | 6 | 1 | 1 | 2 | 3 | 2 | 4 | 1 | 5 | 1 | 2 | 2 | 2 | 1 | 1,3 | 1 | P | P | P | N | N | NO | TV | | | | | | |
| 182 | 24 | 1 | 4 | 3 | 1 | 1 | 1 | 1 | 1 | 1 | 7 | 4 | 1 | 1 | 19 | 3m | 1 | 6 | 1 | 1 | 2 | 1 | 1 | 5 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 6 | 1 | N | N | N | N | N | NO | PHY | | | | | | |
| 183 | 28 | 1 | 4 | 2 | 1 | 1 | 3 | 1 | 1 | 1 | 2 | 4 | 1 | 1 | 37 | 2m | 1 | 3,2 | 1 | 1 | 2 | 3 | 2 | 3 | 2 | 1 | 1 | 2 | 2 | 4 | 1 | 1 | 1 | N | N | N | N | N | NO | BV | | | | | | |
| 184 | 18 | 1 | 3 | 2 | 2 | 1 | 4 | 2 | 4 | 4 | 7 | 4 | 1 | 1 | 18 | 1w | 1 | 2,3 | 1 | 1 | 2 | 1 | 1 | 6 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | N | N | N | N | N | NO | others | | | | | |
| 185 | 55 | 2 | 3 | 1 | 1 | 1 | 2 | 1 | 1 | 2 | 1 | 3 | 1 | 1 | 50 | 1m | 1 | 2,5 | 1 | 1 | 2 | 2 | 2 | 5 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 3 | N | N | N | N | N | NO | CA CERVIX | | | | | | |
| 186 | 19 | 1 | 3 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 4 | 1 | 1 | 19 | 20 | 1 | 6 | 1 | 1 | 2 | 1 | 1 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 6 | 1 | N | N | N | N | N | NO | NV | | | | | | |
| 187 | 22 | 1 | 4 | 3 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 4 | 1 | 1 | 21 | 2M | 1 | 1 | 1 | 1 | 2 | 2 | 1 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 6 | 1 | N | N | N | N | N | NO | NV | | | | | | |
| 188 | 44 | 1 | 4 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 4 | 1 | 1 | 44 | 15 | 1 | 6 | 1 | 1 | 2 | 1 | 1 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 6 | 1 | N | N | N | N | N | NO | NV | | | | | | |
| 189 | 28 | 1 | 3 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 3 | 1 | 1 | 27 | 1y | 2 | 4 | 1 | 1 | 2 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 4 | 1 | N | N | N | N | N | NO | HERPES/CAN | | | | | | |
| 190 | 37 | 1 | 4 | 2 | 1 | 1 | 3 | 1 | 1 | 1 | 2 | 4 | 1 | 1 | 37 | 15 | 1 | 1 | 1 | 1 | 1 | 3 | 2 | 3 | 2 | 1 | 1 | 2 | 2 | 4 | 1 | 1 | 1 | N | N | N | N | N | NO | BV | | | | | | |
| 191 | 28 | 1 | 2 | 3 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 4 | 1 | 1 | 28 | 3m | 10 | 1 | 1,3 | 1 | 1 | 2 | 1 | 1 | 5 | 1 | 2 | 1 | 2 | 1 | 4 | 1 | 1,3 | N | N | N | N | N | NO | BV/MPC | | | | | | |
| 192 | 29 | 1 | 4 | 2 | 2 | 2 | 4 | 2 | 4 | 4 | 2 | 4 | 1 | 1 | 16 | 365 | 2 | 6 | 1 | 1 | 2 | 3 | 2 | 4 | 1 | 5 | 1 | 2 | 2 | 2 | 1 | 1,3 | 1 | P | P | P | N | N | NO | TV | | | | | | |
| 193 | 28 | 1 | 3 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 7 | 4 | 1 | 1 | 28 | 2M | 1 | 1 | 1 | 1 | 2 | 2 | 1 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 6 | 1 | N | N | N | N | N | NO | PHY | | | | | |
| 194 | 27 | 1 | 2 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 4 | 1 | 1 | 27 | 90 | 1 | 6 | 1 | 1 | 2 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 3,4 | 1 | N | N | N | N | N | NO | MPC | | | | | | |
| 195 | 24 | 1 | 3 | 2 | 1 | 2 | 3 | 2 | 4,2 | 1 | 1 | 4 | 1 | 1 | 24 | 2m | 1 | 1 | 1 | 1 | 2 | 2 | 3 | 1 | 1 | 1 | 1 | 1 | 2 | 3 | 2 | 5,3 | 1 | N | N | N | N | N | NO | CAN | | | | | | |
| 196 | 25 | 1 | 3 | 2 | 1 | 1 | 3 | 1 | 1 | 1 | 7 | 4 | 1 | 1 | 25 | 3m | 1 | 1 | 1 | 1 | 1 | 3 | 2 | 3 | 2 | 1 | 1 | 2 | 2 | 4 | 1 | 1 | 1 | N | N | N | N | N | NO | BV | | | | | | |
| 197 | 27 | 1 | 3 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 7 | 4 | 1 | 1 | 26 | 1Y | 1 | 3 | 1 | 1 | 2 | 2 | 1 | 6 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 6 | 1 | N | N | N | N | N | NO | NV | | | | | | |
| 198 | 36 | 2 | 3 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 4 | 1 | 1 | 33 | 3y | 1 | 1,2 | 1 | 1 | 2 | 1 | 1 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 1 | N | N | N | N | N | NO | others | | | | | | |
| 199 | 55 | 1 | 4 | 1 | 1 | 2 | 1 | 2 | 1 | 1 | 6 | 4 | 1 | 1 | 55 | 1m | 1 | 1,5 | 1 | 1 | 2 | 1 | 2 | 1 | 3 | 2 | 2 | 1 | 1 | 1 | 1 | 1 | 4,3 | 7 | N | N | N | N | N | NO | CA CERVIX | | | | | |
| 200 | 55 | 1 | 3 | 2 | 1 | 1 | 3 | 1 | 1 | 1 | 7 | 4 | 1 | 1 | 55 | 14 | 1 | 3 | 1 | 1 | 1 | 3 | 2 | 3 | 2 | 1 | 1 | 2 | 2 | 4 | 1 | 1 | 1 | 1 | N | N | N | N | N | NO | NV | | | | | |
| 201 | 31 | 1 | 4 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 7 | 4 | 1 | 1 | 31 | 1m | 2 | 1,3 | 1 | 1 | 2 | 1 | 1 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 1 | N | N | N | N | N | NO | LAP | | | | | | |
| 202 | 37 | 1 | 3 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 7 | 4 | 1 | 1 | 33 | 3y | 1 | 1,2 | 1 | 1 | 2 | 1 | 1 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 1 | N | N | N | N | N | NO | others | | | | | | |
| 203 | 50 | 1 | 4 | 2 | 1 | 1 | 3 | 1 | 1 | 1 | 2 | 4 | 1 | 1 | 55 | 3m | 1 | 1 | 1 | 1 | 1 | 3 | 2 | 3 | 2 | 1 | 1 | 2 | 2 | 4 | 1 | 1 | 1 | N | N | N | N | N | NO | BV | | | | | | |
| 204 | 27 | 1 | 2 | 2 | 2 | 1 | 1 | 1 | 2 | 2 | 1 | 4 | 1 | 0 | 26 | 1y | 1 | 1 | 1 | 1 | 2 | 2 | 1 | 6 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 6 | 1 | N | N | N | N | N | NO | PHY | | | | | |
| 205 | 49 | 1 | 4 | 1 | 1 | 2 | 1 | 2 | 1 | 1 | 6 | 4 | 1 | 1 | 15 | 5y | 1 | 1,5 | 1 | 1 | 2 | 1 | 2 | 1 | 3 | 2 | 2 | 1 | 1 | 1 | 1 | 3 | 7 | N | N | N | N | N | NO | CA CERVIX | | | | | | |
| 206 | 45 | 1 | 3 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 7 | 4 | 1 | 1 | 45 | 15 | 1 | 1,3 | 1 | 1 | 2 | 2 | 1 | 5 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 1 | N | N | N | N | N | NO | LAP | | | | | | |
| 207 | 36 | 1 | 4 | 2 | 1 | 1 | 1 | 2 | 2 | 1 | 4 | 1 | 0 | 35 | 1y | 1 | 8 | 1 | 1 | 2 | 2 | 1 | 6 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 6 | 1 | N | N | N | N | N | NO | MC | | | | | | |
| 208 | 54 | 1 | 2 | 2 | 1 | 1 | 3 | 1 | 2 | 2 | 1 | 4 | 1 | 1 | 54 | .. | 2 | 1 | 1 | 2 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 3 | 2 | 4,5 | 6 | N | N | N | N | N | NO | CAN | | | | | | |
| 209 | 38 | 2 | 3 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 7 | 4 | 1 | 1 | 38 | 5m | 1 | 1,3 | 1 | 1 | 2 | 2 | 1 | 5 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 1 | N | N | N | N | N | NO | LAP | | | | | | |
| 210 | 39 | 1 | 3 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 4 | 1 | 1 | 39 | 10Y | 1 | 6 | 1 | 1 | 2 | 3 | 1 | 6 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 6 | 1 | N | N | N | N | N | NO | PHY | | | | | | |
| 211 | 37 | 1 | 3 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 4 | 1 | 1 | 37 | 3M | 1 | 1 | 1 | 1 | 2 | 3 | 1 | 6 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 6 | 1 | N | N | N | N | N | NO | NV | | | | | |
| 212 | 26 | 1 | 3 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 4 | 1 | 1 | 26 | 20 | 1 | 6 | 1 | 1 | 2 | 3 | 1 | 6 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 6 | 1 | N | N | N | N | N | NO | NV | | | | | | |
| 213 | 45 | 1 | 2 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 4 | 1 | 1 | 45 | 90 | 1 | 6 | 1 | 1 | 2 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 3,4 | 1 | N | N | N | N | N | NO | MPC | | | | | | |

SYMPTOMATIC PATIENTS

| DEMOGRAPHIC, BEHAVIOUR AND REPRODUCTIVE HISTORY | | | | | | | | | | | | | | | DISEASE CHARACTERISTICS & GENITAL EXAMINATION | | | | | | | | | | INVESTIGATIONS | | | | | | | | | | DIAGNOSIS | | | | | |
|-------------------------------------------------|-----------|-----------|-----------|--------------------|----------------|--------------------------|-----------------------------------|-----------------------------|---------------|-------------------|---------------------|--------------------------|------------------------------------|-----------------|-----------------------------------------------|--------------------------------------|--------------------------|--------|--------------------|----------------|-------------------|------------------|-----------------|-----------------------|------------------|----------------------|--------------------|----------|------------|-----------|-----------|------------|-----------|--------------------------------|--------------------------------|--------------------------------|-----|------|----------------|-----------|
| serial no. | Age (yrs) | Residence | SE status | Educational status | Marital status | Pre/extramarital contact | Husband with extramarital contact | Involvement in prostitution | Contraception | obstetric history | Symptoms in partner | Past H/o PID/Infertility | Treatment received within 3 months | Substance abuse | Age at onset (yrs) | Duration of vaginal discharge (days) | Relation to menstruation | others | Vulvar examination | Genital ulcers | vaginal discharge | Discharge amount | Discharge odour | Discharge consistency | Discharge colour | Cervical examination | Adnexal tenderness | pH range | Whiff test | Wet mount | KOH mount | Gram stain | Pap Smear | Trichomonas culture on 3rd day | Trichomonas culture on 5th day | Trichomonas culture on 7th day | HIV | VDRL | Coexisting STI | Diagnosis |
| 214 | 42 | 1 | 3 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 6 | 3 | 1 | 1 | 42 | 3m | 1 | 7 | 4 | 2 | 2 | 1 | 1 | 6 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 3 | 1 | N | N | N | N | N | NO | HERPES |
| 215 | 22 | 1 | 3 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 6 | 4 | 1 | 1 | 21 | 4m | 1 | 8 | 3 | 1 | 2 | 1 | 1 | 5 | 1 | 1 | 1 | 1 | 3 | 2 | 3 | 1 | N | N | N | N | N | NO | WART/CAN | |

SYMPTOMATIC PATIENTS

| Demographic, Behaviour and Reproductive History | | | | | | | | | | | | | | | Disease Characteristics & Genital Examination | | | | | | | | | | | | | | | Investigations | | | | | | | | | | | | | | | Diagnosis | |
|-------------------------------------------------|-----------|-----------|------------|--------------------|----------------|--------------------------|-----------------------------------|-----------------------------|---------------|-------------------|---------------------|--------------------------|------------------------------------|-----------------|-----------------------------------------------|--------------------------------------|-------------------------|--------|--------------------|----------------|-------------------|------------------|-----------------|-----------------------|------------------|----------------------|--------------------|----------|------------|----------------|-----------|------------|-----------|--------------------------------|--------------------------------|--------------------------------|-----|------|----------------|-----------------|---------|--------|--|--|-----------|--|
| Serial no. | Age (yrs) | Residence | SES status | Educational status | Marital status | Pre/Extramartial contact | Husband with extramarital contact | Involvement in prostitution | Contraception | Obstetric history | Symptoms in partner | Past I/O PID/Infertility | Treatment received within 3 months | Substance abuse | Age at onset (yrs) | Duration of vaginal discharge (days) | Relation to men tuation | others | Vulvar examination | Genital ulcers | vaginal discharge | Discharge amount | Discharge odour | Discharge consistency | Discharge colour | Cervical examination | Adnexal tenderness | pH range | Whiff test | Wet mount | KOH mount | Gram stain | Pap Smear | Trichomonas culture on 3rd day | Trichomonas culture on 5th day | Trichomonas culture on 7th day | HIV | VDRL | Coexisting STI | Diagnosis | | | | | | |
| 216 | 35 | 1 | 4 | 1 | 1 | 1 | 2 | 1 | 3 | 1 | 1 | 4 | 1 | 1 | 35 | 25 | 2 | 1 | 1 | 1 | 2 | 2 | 2 | 6 | 3 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 6 | 1 | P | P | P | N | N | NO | TV | | | | | |
| 217 | 26 | 1 | 4 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 3 | 1 | 1 | 26 | 5 | 1 | 2,3 | 1 | 2 | 2 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 3 | 1 | N | N | N | N | N | NO | HERPES/CAN | | | | | | |
| 218 | 28 | 1 | 2 | 2 | 2 | 1 | 1 | 1 | 2 | 2 | 1 | 4 | 1 | 0 | 26 | 1y | 1 | 1 | 1 | 1 | 2 | 2 | 1 | 6 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 6 | 1 | N | N | N | N | N | NO | NV | | | | | | |
| 219 | 19 | 1 | 3 | 1 | 1 | 1 | 1 | 1 | 3 | 1 | 1 | 4 | 1 | 1 | 18 | 2y | 1 | 2,1 | 1 | 1 | 1 | 1 | 1 | 3 | 2 | 1 | 1 | 2 | 2 | 3 | 2 | 1,4 | 1 | N | N | N | N | N | NO | BV/CAN | | | | | | |
| 220 | 35 | 1 | 4 | 0 | 1 | 1 | 1 | 1 | 3 | 1 | 7 | 4 | 1 | 1 | 35 | 2m | 2 | 1 | 1 | 1 | 1 | 3 | 2 | 4 | 3 | 1 | 1 | 1 | 1 | 2 | 1 | 2 | 1 | 3,4 | 1 | P | P | P | N | N | YES | TV/MPC | | | | |
| 221 | 52 | 1 | 4 | 1 | 1 | 2 | 2 | 2 | 1 | 1 | 6 | 4 | 1 | 1 | 50 | 15 | 1 | 5 | 1 | 1 | 2 | 1 | 2 | 1 | 3 | 2 | 2 | 1 | 1 | 1 | 1 | 3 | 7 | N | N | N | N | N | NO | CA CERVIX IIIA | | | | | | |
| 222 | 30 | 2 | 3 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 4 | 1 | 1 | 30 | 20 | 1 | 1,2 | 1 | 1 | 2 | 3 | 1 | 6 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 3,4 | 1 | N | N | N | N | N | NO | MPC | | | | | | |
| 223 | 20 | 1 | 3 | 2 | 2 | 1 | 4 | 1 | 4 | 4 | 1 | 4 | 1 | 1 | 20 | 7 | 2 | 1 | 1 | 1 | 2 | 1 | 1 | 2 | 1 | 5 | 1 | 1 | 1 | 1 | 1 | 6 | 1 | N | N | N | N | N | NO | NV | | | | | | |
| 224 | 18 | 1 | 4 | 2 | 1 | 1 | 3 | 1 | 1 | 1 | 2 | 4 | 1 | 1 | 37 | 2m | 1 | 3,2 | 1 | 1 | 2 | 3 | 2 | 3 | 2 | 1 | 1 | 2 | 2 | 4 | 1 | 1 | 1 | 1 | N | N | N | N | N | NO | BV/CAN | | | | | |
| 225 | 35 | 1 | 3 | 1 | 1 | 1 | 2 | 1 | 3 | 4 | 1 | 2 | 1 | 1 | 35 | 7 | 1 | 3 | 1 | 1 | 2 | 2 | 1 | 5 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | N | N | N | N | N | NO | HEPB/NV | | | | | |
| 226 | 25 | 1 | 3 | 2 | 1 | 1 | 4 | 1 | 4 | 4 | 1 | 4 | 1 | 1 | 25 | 30 | 2 | 6 | 1 | 1 | 2 | 1 | 1 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 6 | 1 | N | N | N | N | N | NO | NV | | | | | | |
| 227 | 27 | 1 | 3 | 2 | 1 | 1 | 1 | 1 | 4 | 1 | 1 | 4 | 1 | 1 | 26 | 7 | 2 | 6 | 1 | 1 | 2 | 1 | 1 | 6 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 3 | 1 | N | N | N | N | N | NO | NV | | | | | | |
| 228 | 54 | 2 | 3 | 2 | 1 | 1 | 4 | 1 | 4 | 4 | 1 | 4 | 1 | 1 | 54 | 20 | 2 | 6 | 1 | 1 | 2 | 1 | 1 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 6 | 1 | N | N | N | N | N | NO | NV | | | | | | |
| 229 | 24 | 1 | 4 | 1 | 1 | 1 | 3 | 1 | 2 | 3 | 1 | 4 | 1 | 1 | 23 | 2m | 1 | 1 | 1 | 1 | 2 | 2 | 2 | 6 | 1 | 1 | 1 | 1 | 2 | 1 | 1 | 2 | 1 | P | P | P | N | N | NO | TV | | | | | | |
| 230 | 45 | 1 | 4 | 2 | 1 | 1 | 4 | 1 | 4 | 4 | 1 | 4 | 1 | 1 | 45 | 30 | 2 | 6 | 1 | 1 | 2 | 1 | 1 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 3 | 1 | N | N | N | N | N | NO | NV | | | | | | |
| 231 | 32 | 1 | 3 | 2 | 1 | 1 | 4 | 1 | 4 | 4 | 1 | 4 | 1 | 1 | 32 | 15 | 2 | 6 | 1 | 1 | 2 | 1 | 1 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 6 | 1 | N | N | N | N | N | NO | NV | | | | | | |
| 232 | 29 | 1 | 2 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 4 | 1 | 1 | 29 | 45 | 1 | 1,3 | 1 | 1 | 2 | 2 | 1 | 6 | 1 | 2 | 1 | 1 | 1 | 1 | 1 | 6 | 1 | N | N | N | N | N | NO | MPC | | | | | | |
| 233 | 20 | 2 | 3 | 2 | 2 | 1 | 4 | 1 | 4 | 4 | 1 | 4 | 1 | 1 | 20 | 5 | 2 | 6 | 1 | 1 | 2 | 1 | 1 | 2 | 1 | 5 | 1 | 1 | 1 | 1 | 1 | 6 | 1 | N | N | N | N | N | NO | PHY | | | | | | |
| 234 | 28 | 1 | 4 | 1 | 1 | 1 | 3 | 1 | 1 | 1 | 2 | 4 | 1 | 1 | 28 | 30 | 1 | 3 | 1 | 1 | 2 | 3 | 2 | 3 | 2 | 1 | 1 | 2 | 2 | 4 | 1 | 1 | 1 | N | N | N | N | N | NO | BV | | | | | | |
| 235 | 45 | 2 | 2 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 4 | 1 | 1 | 45 | 3y | 2 | 3 | 1 | 1 | 2 | 1 | 1 | 2 | 1 | 2 | 1 | 1 | 1 | 1 | 3 | 1 | 3,4 | 1 | N | N | N | N | N | NO | VVC/MPC | | | | | |
| 236 | 26 | 1 | 4 | 1 | 1 | 1 | 3 | 1 | 1 | 1 | 2 | 4 | 1 | 1 | 37 | 2m | 1 | 3,2 | 1 | 1 | 2 | 3 | 2 | 3 | 2 | 2 | 1 | 2 | 2 | 4 | 1 | 1 | 1 | N | N | N | N | N | NO | MC/BV | | | | | | |
| 237 | 45 | 1 | 3 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 4 | 1 | 1 | 42 | 2y | 1 | 1 | 1 | 1 | 2 | 1 | 1 | 4 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 3 | 1 | N | N | N | N | N | NO | others | | | | | | |
| 238 | 50 | 2 | 4 | 2 | 1 | 2 | 1 | 1 | 1 | 1 | 1 | 4 | 1 | 1 | 50 | 9o | 1 | 1,3 | 1 | 1 | 2 | 2 | 1 | 5 | 1 | 2 | 1 | 1 | 1 | 1 | 1 | 4 | 1 | N | N | N | N | N | NO | MPC | | | | | | |
| 239 | 42 | 1 | 2 | 3 | 1 | 2 | 1 | 1 | 1 | 1 | 1 | 4 | 1 | 1 | 42 | 60 | 2 | 1,2 | 1 | 1 | 2 | 3 | 1 | 5 | 1 | 2 | 1 | 1 | 1 | 1 | 1 | 4 | 1 | N | N | N | N | N | NO | MPC | | | | | | |
| 240 | 28 | 1 | 3 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 4 | 1 | 1 | 27 | 1yr | 2 | 6 | 1 | 1 | 2 | 1 | 2 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 6 | 1 | N | N | N | N | N | NO | NV | | | | | | |
| 241 | 20 | 1 | 4 | 1 | 1 | 2 | 2 | 2 | 6 | 1 | 4 | 1 | 1 | 1 | 18 | 2y | 2 | 3,1,5 | 1 | 1 | 2 | 3 | 1 | 3 | 2 | 1 | 1 | 2 | 2 | 4 | 1 | 3,4 | 1 | N | N | N | N | N | NO | HIV/BV | | | | | | |
| 242 | 35 | 1 | 2 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 4 | 1 | 1 | 34 | 1y | 2 | 3 | 1 | 1 | 2 | 2 | 1 | 5 | 1 | 2 | 1 | 1 | 1 | 1 | 1 | 4 | 1 | N | N | N | N | N | NO | MPC | | | | | | |
| 243 | 45 | 1 | 3 | 1 | 1 | 2 | 1 | 1 | 1 | 1 | 1 | 4 | 1 | 1 | 45 | 10 | 1 | 6 | 1 | 1 | 2 | 1 | 2 | 6 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 6 | 1 | N | N | N | N | N | NO | NV | | | | | | |
| 244 | 40 | 1 | 3 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 4 | 1 | 1 | 35 | 5yr | 2 | 3 | 1 | 1 | 2 | 2 | 1 | 5 | 1 | 3 | 1 | 1 | 1 | 1 | 1 | 3 | 1 | N | N | N | N | N | NO | CERVICAL GROWTH | | | | | | |
| 245 | 20 | 1 | 4 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 4 | 1 | 1 | 20 | 4m | 1 | 6 | 1 | 1 | 2 | 1 | 1 | 6 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 6 | 1 | N | N | N | N | N | NO | NV | | | | | | |
| 246 | 32 | 1 | 2 | 2 | 2 | 2 | 2 | 1 | 2 | 2 | 1 | 4 | 1 | 1 | 32 | 6m | 2 | 2,3 | 1 | 1 | 2 | 2 | 2 | 6 | 3 | 1 | 1 | 2 | 2 | 1 | 1 | 4 | 1 | P | P | N | N | N | YES | TV/MPC | | | | | | |
| 247 | 42 | 1 | 4 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 4 | 1 | 1 | 42 | 9m | 1 | 1,3 | 1 | 1 | 2 | 2 | 1 | 5 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 5 | 1 | N | N | N | N | N | NO | MPC/LAP | | | | | | |
| 248 | 30 | 1 | 3 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 4 | 1 | 1 | 28 | 2y | 1 | 1,2 | 1 | 1 | 2 | 1 | 1 | 5 | 1 | 1 | 1 | 1 | 2 | 3 | 2 | 3 | 1 | N | N | N | N | N | NO | HIV/CAN | | | | | | |
| 249 | 30 | 1 | 2 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 4 | 1 | 1 | 30 | 1y | 1 | 6 | 1 | 1 | 2 | 2 | 1 | 6 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 3 | 1 | N | N | N | N | N | NO | NV | | | | | | |
| 250 | 24 | 1 | 4 | 1 | 1 | 1 | 3 | 1 | 1 | 1 | 2 | 4 | 1 | 1 | 23 | 8m | 1 | 8 | 1 | 1 | 2 | 3 | 2 | 3 | 3 | 1 | 1 | 2 | 2 | 4 | 1 | 1 | 1 | N | N | N | N | N | NO | BV/WART | | | | | | |

ASYMPTOMATIC PATIENTS

| | MOGRAPHIC, BEHAVIOUR AND REPRODUCTIVE HISTO | | | | | | | | | | | | | DISEASE CHARACTERISTICS & GENITAL EXAMINATION | | | | | | | | | | | | | INVESTIGATIONS | | | | | | | | | | DIAGNOSIS | | | | |
|----------|---------------------------------------------|-----------|-----------|--------------------|----------------|--------------------------|-----------------------------------|-----------------------------|---------------|-------------------|---------------------|--------------------------|------------------------------------|-----------------------------------------------|--------------------|--------------------------------------|--------------------------|--------|--------------------|----------------|-------------------|------------------|-----------------|-----------------------|------------------|----------------------|--------------------|----------|------------|-----------|-----------|----------------------------|-----------|--------------------------------|--------------------------------|--------------------------------|-----------|------|----------------|-----------|----|
| serialno | Age (yrs) | Residence | SE status | Educational status | Marital status | Pre/extramarital contact | Husband with extramarital contact | Involvement in prostitution | Contraception | obstetric history | Symptoms in partner | Past h/o PID/infertility | Treatment received within 3 months | Substance abuse | Age at onset (yrs) | Duration of vaginal discharge (days) | Relation to menstruation | others | Vulvar examination | Genital ulcers | vaginal discharge | Discharge amount | Discharge odour | Discharge consistency | Discharge colour | Cervical examination | Adnexal tenderness | pH range | Whiff test | Wet mount | KOH mount | grams stain of cervical dx | Pap Smear | Trichomonas culture on 3rd day | Trichomonas culture on 5th day | Trichomonas culture on 7th day | HIV | VDRL | Coexisting STI | Diagnosis | |
| 1 | 42 | 1 | 2 | 2 | 1 | 1 | 1 | 1 | 2 | 2 | 1 | 4 | 1 | 1 | 0 | 0 | 0 | 6 | 1 | 1 | 2 | 1 | 1 | 5 | 1 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 6 | 1 | N | N | N | N | N | NO | NV |
| 2 | 28 | 1 | 3 | 2 | 1 | 1 | 1 | 1 | 2 | 2 | 1 | 4 | 1 | 1 | 0 | 0 | 0 | 6 | 2 | 1 | 2 | 3 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 5 | 1 | N | N | N | N | N | NO | CAN | |
| 3 | 20 | 1 | 4 | 1 | 1 | 1 | 1 | 1 | 3 | 1 | 7 | 4 | 1 | 1 | 0 | 0 | 0 | 6 | 1 | 1 | 1 | 1 | 1 | 5 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 6 | 1 | N | N | N | N | N | NO | NV | |
| 4 | 28 | 1 | 4 | 0 | 1 | 1 | 1 | 2 | 3 | 1 | 1 | 4 | 1 | 1 | 0 | 0 | 0 | 6 | 1 | 1 | 1 | 1 | 1 | 5 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 6 | 1 | N | N | N | N | N | NO | NV | |
| 5 | 40 | 1 | 2 | 2 | 1 | 1 | 3 | 1 | 1 | 1 | 7 | 4 | 1 | 1 | 0 | 0 | 0 | 6 | 1 | 1 | 2 | 1 | 1 | 5 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 6 | 1 | N | N | N | N | N | NO | NV | |
| 6 | 46 | 1 | 3 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 4 | 1 | 1 | 0 | 0 | 0 | 6 | 1 | 1 | 2 | 2 | 1 | 3 | 1 | 1 | 1 | 2 | 2 | 4 | 1 | 1 | 1 | N | N | N | N | N | NO | BV | |
| 7 | 32 | 1 | 3 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 7 | 4 | 1 | 1 | 0 | 0 | 0 | 6 | 1 | 1 | 2 | 2 | 2 | 3 | 2 | 1 | 1 | 2 | 2 | 4 | 1 | 1 | 1 | N | N | N | N | N | NO | BV | |
| 8 | 22 | 1 | 2 | 2 | 1 | 1 | 1 | 1 | 3 | 4 | 1 | 4 | 1 | 1 | 0 | 0 | 0 | 6 | 1 | 1 | 2 | 1 | 1 | 5 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 5 | 1 | N | N | N | N | N | NO | NV | |
| 9 | 30 | 1 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 7 | 4 | 1 | 1 | 0 | 0 | 0 | 6 | 1 | 1 | 2 | 1 | 1 | 6 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 6 | 1 | N | N | N | N | N | NO | NV | |
| 10 | 50 | 1 | 3 | 2 | 1 | 1 | 1 | 1 | 1 | 2 | 1 | 4 | 1 | 1 | 0 | 0 | 0 | 6 | 1 | 1 | 2 | 1 | 1 | 6 | 1 | 5 | 1 | 1 | 1 | 3 | 2 | 5 | 1 | N | N | N | N | N | NO | CAN | |
| 11 | 37 | 1 | 2 | 1 | 2 | 1 | 1 | 1 | 1 | 4 | 7 | 5 | 1 | 1 | 0 | 0 | 0 | 6 | 1 | 1 | 2 | 1 | 1 | 5 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 6 | 1 | N | N | N | P | N | NO | HIV+ | |
| 12 | 35 | 1 | 3 | 2 | 1 | 1 | 3 | 1 | 1 | 2 | 1 | 4 | 1 | 1 | 0 | 0 | 0 | 6 | 1 | 1 | 2 | 1 | 1 | 5 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 6 | 1 | N | N | N | N | N | NO | NV | |
| 13 | 38 | 1 | 3 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 7 | 4 | 1 | 1 | 0 | 0 | 0 | 6 | 1 | 1 | 2 | 1 | 1 | 6 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 6 | 1 | N | N | N | N | N | NO | NV | |
| 14 | 22 | 1 | 4 | 1 | 1 | 1 | 3 | 1 | 3 | 2 | 1 | 4 | 1 | 1 | 0 | 0 | 0 | 6 | 1 | 1 | 2 | 1 | 1 | 6 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 6 | 1 | N | N | N | N | N | NO | NV | |
| 15 | 30 | 2 | 4 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 7 | 4 | 1 | 1 | 0 | 0 | 0 | 6 | 1 | 1 | 2 | 1 | 1 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 6 | 1 | N | N | N | N | N | NO | NV | |
| 16 | 45 | 1 | 4 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 1 | 4 | 1 | 1 | 0 | 0 | 0 | 6 | 1 | 1 | 2 | 1 | 1 | 6 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 6 | 1 | N | N | N | N | N | NO | NV | |
| 17 | 52 | 1 | 4 | 1 | 3 | 1 | 3 | 1 | 1 | 1 | 7 | 4 | 1 | 1 | 0 | 0 | 0 | 6 | 1 | 1 | 1 | 1 | 1 | 6 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 6 | 1 | N | N | N | N | N | NO | NV | |
| 18 | 29 | 1 | 2 | 2 | 1 | 1 | 1 | 1 | 3 | 4 | 7 | 1 | 4 | 1 | 0 | 0 | 0 | 6 | 1 | 1 | 1 | 1 | 1 | 6 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 6 | 1 | N | N | N | N | N | NO | NV | |
| 19 | 45 | 1 | 4 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 4 | 1 | 1 | 0 | 0 | 0 | 6 | 1 | 1 | 1 | 2 | 1 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 6 | 1 | N | N | N | N | N | NO | NV | |
| 20 | 50 | 1 | 3 | 1 | 1 | 1 | 3 | 1 | 1 | 1 | 7 | 4 | 1 | 1 | 0 | 0 | 0 | 6 | 1 | 1 | 2 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 3 | 2 | 5 | 1 | N | N | N | N | N | NO | CAN | |
| 21 | 32 | 2 | 3 | 1 | 1 | 1 | 1 | 1 | 2 | 1 | 7 | 4 | 1 | 1 | 0 | 0 | 0 | 6 | 1 | 1 | 1 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 6 | 1 | N | N | N | N | N | NO | NV | |
| 22 | 23 | 1 | 4 | 2 | 1 | 1 | 1 | 1 | 2 | 2 | 7 | 4 | 1 | 1 | 0 | 0 | 0 | 6 | 1 | 1 | 2 | 1 | 1 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 6 | 1 | N | N | N | N | N | NO | NV | |
| 23 | 42 | 1 | 4 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 4 | 1 | 1 | 0 | 0 | 0 | 6 | 1 | 1 | 2 | 1 | 1 | 6 | 1 | 1 | 1 | 1 | 1 | 3 | 1 | 6 | 1 | N | N | N | N | N | NO | NV | |
| 24 | 45 | 1 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 7 | 4 | 1 | 1 | 0 | 0 | 0 | 6 | 1 | 1 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 6 | 1 | N | N | N | N | N | NO | NV | |
| 25 | 47 | 1 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 7 | 4 | 1 | 1 | 0 | 0 | 0 | 6 | 1 | 1 | 2 | 1 | 1 | 6 | 4 | 1 | 1 | 1 | 1 | 1 | 1 | 6 | 1 | N | N | N | N | N | NO | NV | |
| 26 | 40 | 1 | 3 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 4 | 1 | 1 | 0 | 0 | 0 | 6 | 1 | 1 | 2 | 2 | 1 | 6 | 1 | 1 | 1 | 2 | 2 | 4 | 1 | 1 | 1 | N | N | N | N | N | NO | BV | |
| 27 | 39 | 1 | 4 | 0 | 1 | 1 | 1 | 2 | 3 | 1 | 1 | 4 | 1 | 1 | 0 | 0 | 0 | 6 | 1 | 1 | 1 | 2 | 1 | 5 | 4 | 1 | 1 | 1 | 1 | 1 | 1 | 6 | 1 | N | N | N | N | N | NO | NV | |
| 28 | 33 | 1 | 4 | 2 | 1 | 2 | 1 | 1 | 1 | 1 | 2 | 4 | 1 | 1 | 0 | 0 | 0 | 6 | 2 | 1 | 2 | 3 | 2 | 6 | 3 | 1 | 1 | 2 | 1 | 1 | 1 | 3,4 | 1 | N | N | N | N | N | NO | MPC | |

| serialno | Age (yrs) | Residence | SE status | Educational status | Marital status | Pre/extramartial contact | Husband with extramarital contact | Involvement in prostitution | Contraception | obstetric history | Symptoms in partner | Past h/o PID/infertility | Treatment received within 3 months | Substance abuse | Age at onset (yrs) | Duration of vaginal discharge (days) | Relation to menstruation | others | Vulvar examination | Genital ulcers | vaginal discharge | Discharge amount | Discharge odour | Discharge consistency | Discharge colour | Cervical examination | Adnexal tenderness | pH range | Whiff test | Wet mount | KOH mount | grams stain of cervical dx | Pap Smear | Trichomonas culture on 3rd day | Trichomonas culture on 5th day | Trichomonas culture on 7th day | HIV | VDRL | Coexisting STI | Diagnosis |
|----------|-----------|-----------|-----------|--------------------|----------------|--------------------------|-----------------------------------|-----------------------------|---------------|-------------------|---------------------|--------------------------|------------------------------------|-----------------|--------------------|--------------------------------------|--------------------------|--------|--------------------|----------------|-------------------|------------------|-----------------|-----------------------|------------------|----------------------|--------------------|----------|------------|-----------|-----------|----------------------------|-----------|--------------------------------|--------------------------------|--------------------------------|-----|------|----------------|-----------|
| 29 | 24 | 1 | 3 | 1 | 1 | 1 | 1 | 1 | 3 | 2 | 7 | 4 | 1 | 1 | 0 | 0 | 0 | 6 | 1 | 1 | 2 | 2 | 1 | 5 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 6 | 1 | N | N | N | N | N | NO | PHY |
| 30 | 26 | 1 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 4 | 1 | 1 | 0 | 0 | 0 | 6 | 1 | 1 | 2 | 2 | 1 | 6 | 1 | 1 | 1 | 2 | 1 | 1 | 1 | 2 | 1 | N | N | N | N | N | NO | others |
| 31 | 35 | 1 | 3 | 2 | 1 | 1 | 1 | 1 | 1 | 2 | 1 | 4 | 1 | 1 | 0 | 0 | 0 | 6 | 1 | 1 | 1 | 1 | 1 | 6 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 6 | 1 | N | N | N | N | N | NO | PHY |
| 32 | 48 | 1 | 4 | 0 | 1 | 1 | 1 | 2 | 3 | 1 | 1 | 4 | 1 | 1 | 0 | 0 | 0 | 6 | 1 | 1 | 1 | 1 | 1 | 5 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 6 | 1 | N | N | N | N | N | NO | NV |
| 33 | 29 | 1 | 4 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 7 | 4 | 1 | 1 | 0 | 0 | 0 | 6 | 1 | 1 | 2 | 2 | 1 | 6 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 6 | 1 | N | N | N | N | N | NO | NV |
| 34 | 32 | 1 | 4 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 7 | 4 | 1 | 1 | 0 | 0 | 0 | 6 | 1 | 1 | 2 | 2 | 1 | 6 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 6 | 1 | N | N | N | N | N | NO | PHY |
| 35 | 45 | 1 | 3 | 2 | 1 | 1 | 1 | 1 | 2 | 2 | 1 | 4 | 1 | 1 | 0 | 0 | 0 | 6 | 2 | 1 | 2 | 3 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 3 | 1 | 5 | 1 | N | N | N | N | N | NO | CAN |
| 36 | 32 | 1 | 4 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 7 | 4 | 1 | 1 | 0 | 0 | 0 | 6 | 1 | 1 | 2 | 2 | 1 | 6 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 6 | 1 | N | N | N | N | N | NO | NV |
| 37 | 29 | 1 | 4 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 7 | 4 | 1 | 1 | 0 | 0 | 0 | 6 | 1 | 1 | 2 | 2 | 1 | 6 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 6 | 1 | N | N | N | N | N | NO | NV |
| 38 | 45 | 1 | 4 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 7 | 4 | 1 | 1 | 0 | 0 | 0 | 6 | 1 | 1 | 2 | 2 | 1 | 6 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 6 | 1 | N | N | N | N | N | NO | HIV+ |
| 39 | 53 | 1 | 4 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 7 | 4 | 1 | 1 | 0 | 0 | 0 | 6 | 1 | 1 | 2 | 2 | 1 | 6 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 6 | 1 | N | N | N | N | N | NO | NV |
| 40 | 46 | 1 | 4 | 2 | 1 | 2 | 1 | 1 | 1 | 1 | 2 | 4 | 1 | 1 | 0 | 0 | 0 | 6 | 2 | 1 | 2 | 3 | 2 | 6 | 3 | 1 | 1 | 2 | 1 | 1 | 1 | 3,4 | 1 | N | N | N | N | N | NO | MPC |
| 41 | 40 | 1 | 4 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 7 | 4 | 1 | 1 | 0 | 0 | 0 | 6 | 1 | 1 | 2 | 2 | 1 | 6 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 6 | 1 | N | N | N | N | N | NO | NV |
| 42 | 38 | 1 | 4 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 7 | 4 | 1 | 1 | 0 | 0 | 0 | 6 | 1 | 1 | 2 | 2 | 1 | 6 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 6 | 1 | N | N | N | N | N | NO | others |
| 43 | 23 | 1 | 4 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 7 | 4 | 1 | 1 | 0 | 0 | 0 | 6 | 1 | 1 | 2 | 2 | 1 | 6 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 6 | 1 | N | N | N | N | N | NO | NV |
| 44 | 32 | 1 | 4 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 7 | 4 | 1 | 1 | 0 | 0 | 0 | 6 | 1 | 1 | 2 | 2 | 1 | 6 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 6 | 1 | N | N | N | N | N | NO | NV |
| 45 | 32 | 1 | 4 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 7 | 4 | 1 | 1 | 0 | 0 | 0 | 6 | 1 | 1 | 2 | 2 | 1 | 6 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 6 | 1 | N | N | N | N | N | NO | PHY |
| 46 | 27 | 1 | 3 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 7 | 4 | 1 | 1 | 0 | 0 | 0 | 3 | 1 | 1 | 2 | 2 | 2 | 3 | 2 | 1 | 1 | 2 | 2 | 4 | 1 | 1 | 1 | N | N | N | N | N | NO | BV |
| 47 | 28 | 1 | 4 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 7 | 4 | 1 | 1 | 0 | 0 | 0 | 6 | 1 | 1 | 2 | 2 | 1 | 6 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 6 | 1 | N | N | N | N | N | NO | NV |
| 48 | 42 | 1 | 4 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 7 | 4 | 1 | 1 | 0 | 0 | 0 | 6 | 1 | 1 | 2 | 2 | 1 | 6 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 6 | 1 | N | N | N | N | N | NO | NV |
| 49 | 35 | 1 | 4 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 7 | 4 | 1 | 1 | 0 | 0 | 0 | 6 | 1 | 1 | 2 | 2 | 1 | 6 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 6 | 1 | N | N | N | N | N | NO | others |
| 50 | 18 | 1 | 4 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 7 | 4 | 1 | 1 | 0 | 0 | 0 | 6 | 1 | 1 | 2 | 2 | 1 | 6 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 6 | 1 | N | N | N | N | N | NO | NV |
| 51 | 45 | 1 | 3 | 1 | 1 | 1 | 1 | 1 | 3 | 1 | 7 | 4 | 1 | 1 | 0 | 0 | 0 | 6 | 1 | 1 | 1 | 2 | 1 | 5 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 6 | 1 | N | N | N | N | N | NO | NV |
| 52 | 50 | 1 | 4 | 0 | 3 | 2 | 4 | 2 | 1 | 1 | 7 | 4 | 1 | 2 | 0 | 0 | 0 | 6 | 1 | 1 | 2 | 1 | 1 | 6 | 1 | 1 | 1 | 2 | 2 | 1 | 1 | 4 | 2 | p | p | p | n | n | NO | TV/BV |
| 53 | 32 | 1 | 4 | 2 | 1 | 2 | 1 | 1 | 1 | 1 | 2 | 4 | 1 | 1 | 0 | 0 | 0 | 6 | 2 | 1 | 2 | 3 | 2 | 6 | 3 | 1 | 1 | 2 | 1 | 1 | 1 | 3,4 | 1 | N | N | N | N | N | NO | BV/MPC |
| 54 | 35 | 1 | 4 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 7 | 4 | 1 | 1 | 0 | 0 | 0 | 6 | 1 | 1 | 2 | 2 | 1 | 6 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 6 | 1 | N | N | N | N | N | NO | NV |
| 55 | 36 | 1 | 4 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 7 | 4 | 1 | 1 | 0 | 0 | 0 | 6 | 1 | 1 | 2 | 2 | 1 | 6 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 6 | 1 | N | N | N | N | N | NO | PHY |
| 56 | 24 | 1 | 4 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 7 | 4 | 1 | 1 | 0 | 0 | 0 | 6 | 1 | 1 | 2 | 2 | 1 | 6 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 6 | 1 | N | N | N | N | N | NO | NV |
| 57 | 55 | 1 | 3 | 2 | 1 | 1 | 1 | 1 | 2 | 2 | 1 | 4 | 1 | 1 | 0 | 0 | 0 | 6 | 2 | 1 | 2 | 3 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 5 | 1 | N | N | N | N | N | NO | CAN |
| 58 | 55 | 1 | 4 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 4 | 1 | 1 | 0 | 0 | 0 | 6 | 1 | 1 | 1 | 2 | 1 | 5 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 6 | 1 | N | N | N | N | N | NO | NV |

| serialno | Age (yrs) | Residence | SE status | Educational status | Marital status | Pre/extramartial contact | Husband with extramarital contact | Involvement in prostitution | Contraception | obstetric history | Symptoms in partner | Past h/o PID/infertility | Treatment received within 3 months | Substance abuse | Age at onset (yrs) | Duration of vaginal discharge (days) | Relation to menstruation | others | Vulvar examination | Genital ulcers | vaginal discharge | Discharge amount | Discharge odour | Discharge consistency | Discharge colour | Cervical examination | Adnexal tenderness | pH range | Whiff test | Wet mount | KOH mount | grams stain of cervical dx | Pap Smear | Trichomonas culture on 3rd day | Trichomonas culture on 5th day | Trichomonas culture on 7th day | HIV | VDRL | Coexisting STI | Diagnosis | |
|----------|-----------|-----------|-----------|--------------------|----------------|--------------------------|-----------------------------------|-----------------------------|---------------|-------------------|---------------------|--------------------------|------------------------------------|-----------------|--------------------|--------------------------------------|--------------------------|--------|--------------------|----------------|-------------------|------------------|-----------------|-----------------------|------------------|----------------------|--------------------|----------|------------|-----------|-----------|----------------------------|-----------|--------------------------------|--------------------------------|--------------------------------|-----|------|----------------|-----------|----------------|
| 59 | 39 | 1 | 4 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 7 | 4 | 1 | 1 | 0 | 0 | 0 | 6 | 1 | 1 | 2 | 2 | 1 | 6 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 6 | 1 | N | N | N | N | N | NO | PHY |
| 60 | 26 | 1 | 4 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 7 | 4 | 1 | 1 | 0 | 0 | 0 | 6 | 1 | 1 | 2 | 2 | 1 | 6 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 6 | 1 | N | N | N | N | N | NO | NV |
| 61 | 27 | 1 | 4 | 2 | 1 | 2 | 1 | 1 | 1 | 1 | 2 | 4 | 1 | 1 | 0 | 0 | 0 | 6 | 2 | 1 | 2 | 3 | 2 | 5 | 3 | 1 | 1 | 2 | 1 | 1 | 1 | 3,4 | 1 | N | N | N | N | N | NO | MPC | |
| 62 | 37 | 1 | 4 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 7 | 4 | 1 | 1 | 0 | 0 | 0 | 6 | 1 | 1 | 2 | 2 | 1 | 6 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 6 | 1 | N | N | N | N | N | NO | NV |
| 63 | 30 | 1 | 4 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 7 | 4 | 1 | 1 | 0 | 0 | 0 | 6 | 1 | 1 | 2 | 2 | 1 | 3 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 6 | 1 | N | N | N | N | N | NO | NV/CONTACT SY2 |
| 64 | 37 | 1 | 4 | 2 | 1 | 2 | 1 | 1 | 1 | 1 | 2 | 4 | 1 | 1 | 0 | 0 | 0 | 6 | 2 | 1 | 2 | 3 | 2 | 6 | 3 | 1 | 1 | 2 | 1 | 1 | 1 | 3,4 | 1 | N | N | N | N | N | NO | | |
| 65 | 45 | 1 | 3 | 2 | 1 | 1 | 3 | 1 | 1 | 1 | 1 | 4 | 1 | 1 | 0 | 0 | 0 | 6 | 1 | 1 | 2 | 1 | 1 | 5 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 6 | 1 | N | N | N | N | N | NO | NV |
| 66 | 28 | 1 | 4 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 7 | 4 | 1 | 1 | 0 | 0 | 0 | 6 | 1 | 1 | 2 | 2 | 1 | 6 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 6 | 1 | N | N | N | N | N | NO | NV |
| 67 | 52 | 1 | 4 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 7 | 4 | 1 | 1 | 0 | 0 | 0 | 6 | 1 | 1 | 2 | 2 | 1 | 5 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 6 | 1 | N | N | N | N | N | NO | NV |
| 68 | 38 | 1 | 2 | 2 | 1 | 1 | 3 | 2 | 3 | 1 | 1 | 4 | 1 | 1 | 0 | 0 | 0 | 6 | 1 | 1 | 2 | 2 | 1 | 5 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 6 | 1 | N | N | N | N | N | NO | NV |
| 69 | 33 | 1 | 4 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 7 | 4 | 1 | 1 | 0 | 0 | 0 | 6 | 1 | 1 | 2 | 2 | 1 | 6 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 6 | 1 | N | N | N | N | N | NO | others |
| 70 | 45 | 1 | 4 | 2 | 1 | 2 | 1 | 1 | 1 | 1 | 2 | 4 | 1 | 1 | 0 | 0 | 0 | 6 | 2 | 1 | 2 | 3 | 2 | 3 | 3 | 1 | 1 | 2 | 1 | 1 | 1 | 3,4 | 1 | N | N | N | N | N | NO | MPC | |
| 71 | 26 | 1 | 4 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 7 | 4 | 1 | 1 | 0 | 0 | 0 | 6 | 1 | 1 | 2 | 2 | 1 | 6 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 6 | 1 | N | N | N | N | N | NO | NV |
| 72 | 25 | 1 | 4 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 7 | 4 | 1 | 1 | 0 | 0 | 0 | 6 | 1 | 1 | 2 | 2 | 1 | 5 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 6 | 1 | N | N | N | N | N | NO | NV |
| 73 | 50 | 1 | 4 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 7 | 4 | 1 | 1 | 0 | 0 | 0 | 6 | 1 | 1 | 2 | 2 | 1 | 6 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 6 | 1 | N | N | N | N | N | NO | NV |
| 74 | 25 | 1 | 3 | 2 | 1 | 1 | 1 | 1 | 2 | 2 | 1 | 4 | 1 | 1 | 0 | 0 | 0 | 6 | 2 | 1 | 2 | 3 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 3 | 1 | 5 | 1 | N | N | N | N | N | NO | CAN | |
| 75 | 40 | 1 | 3 | 2 | 1 | 1 | 1 | 1 | 2 | 2 | 1 | 4 | 1 | 1 | 0 | 0 | 0 | 6 | 2 | 1 | 2 | 3 | 1 | 5 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 5 | 1 | N | N | N | N | N | NO | CAN |
| 76 | 38 | 1 | 4 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 7 | 4 | 1 | 1 | 0 | 0 | 0 | 6 | 1 | 1 | 2 | 2 | 1 | 6 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 6 | 1 | N | N | N | N | N | NO | NV |
| 77 | 42 | 1 | 4 | 2 | 1 | 2 | 1 | 1 | 1 | 1 | 2 | 4 | 1 | 1 | 0 | 0 | 0 | 6 | 2 | 1 | 2 | 3 | 2 | 6 | 3 | 1 | 1 | 2 | 1 | 1 | 1 | 1 | 3,4 | 1 | N | N | N | N | N | NO | MPC |
| 78 | 25 | 1 | 4 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 7 | 4 | 1 | 1 | 0 | 0 | 0 | 6 | 1 | 1 | 2 | 2 | 1 | 6 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 6 | 1 | N | N | N | N | N | NO | NV |
| 79 | 36 | 1 | 3 | 2 | 1 | 1 | 1 | 1 | 2 | 2 | 7 | 4 | 1 | 1 | 0 | 0 | 0 | 6 | 2 | 1 | 2 | 3 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 5 | 1 | N | N | N | N | N | NO | CAN | |
| 80 | 35 | 1 | 4 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 7 | 4 | 1 | 1 | 0 | 0 | 0 | 6 | 1 | 1 | 2 | 2 | 1 | 6 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 6 | 1 | N | N | N | N | N | NO | NV |
| 81 | 32 | 1 | 4 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 7 | 4 | 1 | 1 | 0 | 0 | 0 | 6 | 1 | 1 | 2 | 2 | 1 | 5 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 6 | 1 | N | N | N | N | N | NO | others |
| 82 | 46 | 1 | 4 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 7 | 4 | 1 | 1 | 0 | 0 | 0 | 6 | 1 | 1 | 2 | 2 | 1 | 6 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 6 | 1 | N | N | N | N | N | NO | Others |
| 83 | 45 | 1 | 3 | 0 | 1 | 1 | 3 | 2 | 3 | 1 | 1 | 4 | 1 | 1 | 0 | 0 | 0 | 6 | 1 | 1 | 2 | 1 | 1 | 5 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 6 | 1 | N | N | N | N | N | NO | NV |
| 84 | 38 | 2 | 3 | 2 | 1 | 1 | 1 | 1 | 2 | 2 | 1 | 4 | 1 | 1 | 0 | 0 | 0 | 6 | 2 | 1 | 2 | 3 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 5 | 1 | N | N | N | N | N | NO | CAN | |
| 85 | 24 | 1 | 4 | 2 | 1 | 1 | 1 | 2 | 2 | 1 | 1 | 4 | 1 | 1 | 0 | 0 | 0 | 6 | 1 | 1 | 2 | 1 | 1 | 5 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 6 | 1 | N | N | N | N | N | NO | NV |
| 86 | 45 | 1 | 2 | 0 | 1 | 1 | 3 | 2 | 1 | 1 | 1 | 4 | 1 | 1 | 0 | 0 | 0 | 6 | 1 | 1 | 1 | 2 | 1 | 6 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 6 | 1 | N | N | N | N | N | NO | NV |
| 87 | 20 | 1 | 3 | 2 | 1 | 1 | 1 | 2 | 3 | 1 | 1 | 4 | 1 | 1 | 0 | 0 | 0 | 6 | 1 | 1 | 1 | 1 | 1 | 5 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 5 | 1 | N | N | N | N | N | NO | PHY | |
| 88 | 34 | 1 | 3 | 2 | 1 | 1 | 1 | 2 | 3 | 1 | 1 | 4 | 1 | 1 | 0 | 0 | 0 | 6 | 1 | 1 | 1 | 1 | 1 | 5 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 5 | 1 | N | N | N | N | N | NO | PHY | |

| serialno | Age (yrs) | Residence | SE status | Educational status | Marital status | Pre/extramartial contact | Husband with extramarital contact | Involvement in prostitution | Contraception | obstetric history | Symptoms in partner | Past h/o PID/infertility | Treatment received within 3 months | Substance abuse | Age at onset (yrs) | Duration of vaginal discharge (days) | Relation to menstruation | others | Vulvar examination | Genital ulcers | vaginal discharge | Discharge amount | Discharge odour | Discharge consistency | Discharge colour | Cervical examination | Adnexal tenderness | pH range | Whiff test | Wet mount | KOH mount | grams stain of cervical dx | Pap Smear | Trichomonas culture on 3rd day | Trichomonas culture on 5th day | Trichomonas culture on 7th day | HIV | VDRL | Coexisting STI | Diagnosis | |
|----------|-----------|-----------|-----------|--------------------|----------------|--------------------------|-----------------------------------|-----------------------------|---------------|-------------------|---------------------|--------------------------|------------------------------------|-----------------|--------------------|--------------------------------------|--------------------------|--------|--------------------|----------------|-------------------|------------------|-----------------|-----------------------|------------------|----------------------|--------------------|----------|------------|-----------|-----------|----------------------------|-----------|--------------------------------|--------------------------------|--------------------------------|-----|------|----------------|------------|-----|
| 89 | 25 | 1 | 4 | 0 | 1 | 1 | 1 | 2 | 3 | 1 | 1 | 4 | 1 | 1 | 0 | 0 | 0 | 6 | 1 | 1 | 2 | 2 | 1 | 6 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 6 | 1 | N | N | N | N | N | NO | NV |
| 90 | 45 | 1 | 4 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 7 | 4 | 1 | 1 | 0 | 0 | 0 | 6 | 1 | 1 | 2 | 2 | 1 | 6 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 6 | 1 | N | N | N | N | N | NO | NV |
| 91 | 19 | 1 | 4 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 7 | 4 | 1 | 1 | 0 | 0 | 0 | 6 | 1 | 1 | 2 | 2 | 1 | 5 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 6 | 1 | N | N | N | N | N | NO | NV |
| 92 | 48 | 1 | 3 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 7 | 4 | 1 | 1 | 0 | 0 | 0 | 3 | 1 | 1 | 2 | 2 | 2 | 3 | 2 | 1 | 1 | 2 | 2 | 4 | 1 | 1 | 1 | N | N | N | N | N | NO | BV | |
| 93 | 22 | 1 | 4 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 7 | 4 | 1 | 1 | 0 | 0 | 0 | 6 | 1 | 1 | 2 | 2 | 1 | 6 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 6 | 1 | N | N | N | N | N | NO | NV |
| 94 | 22 | 1 | 3 | 2 | 1 | 1 | 1 | 2 | 2 | 1 | 1 | 4 | 1 | 1 | 0 | 0 | 0 | 6 | 1 | 1 | 2 | 1 | 1 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 6 | 1 | N | N | N | N | N | NO | NV |
| 95 | 18 | 1 | 3 | 2 | 1 | 1 | 1 | 2 | 3 | 1 | 1 | 4 | 1 | 1 | 0 | 0 | 0 | 6 | 1 | 1 | 1 | 1 | 1 | 5 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 5 | 1 | N | N | N | N | N | NO | PHY |
| 96 | 28 | 1 | 4 | 1 | 1 | 1 | 3 | 2 | 1 | 1 | 1 | 4 | 1 | 1 | 0 | 0 | 0 | 6 | 1 | 1 | 2 | 1 | 1 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 6 | 1 | N | N | N | N | N | NO | NV |
| 97 | 40 | 1 | 4 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 7 | 4 | 1 | 1 | 0 | 0 | 0 | 6 | 1 | 1 | 2 | 2 | 1 | 6 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 6 | 1 | N | N | N | N | N | NO | NV |
| 98 | 33 | 1 | 4 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 7 | 4 | 1 | 1 | 0 | 0 | 0 | 6 | 1 | 1 | 2 | 2 | 1 | 6 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 6 | 1 | N | N | N | N | N | NO | NV |
| 99 | 40 | 1 | 3 | 2 | 1 | 1 | 1 | 1 | 2 | 2 | 1 | 4 | 1 | 1 | 0 | 0 | 0 | 6 | 2 | 1 | 2 | 3 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 3 | 1 | 5 | 1 | N | N | N | N | N | NO | CAN | |
| 100 | 24 | 1 | 3 | 1 | 1 | 1 | 1 | 2 | 3 | 1 | 1 | 4 | 1 | 1 | 0 | 0 | 0 | 6 | 1 | 1 | 2 | 1 | 1 | 6 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 6 | 1 | N | N | N | N | N | NO | NV |
| 101 | 18 | 1 | 4 | 2 | 1 | 1 | 1 | 2 | 4 | 4 | 7 | 4 | 1 | 1 | 0 | 0 | 0 | 6 | 1 | 1 | 1 | 1 | 1 | 5 | 4 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 1 | N | N | N | N | N | NO | NV |
| 102 | 30 | 1 | 4 | 1 | 1 | 1 | 1 | 2 | 3 | 1 | 1 | 4 | 1 | 1 | 0 | 0 | 0 | 6 | 1 | 1 | 2 | 1 | 1 | 6 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 6 | 1 | N | N | N | N | N | NO | NV |
| 103 | 42 | 1 | 3 | 2 | 1 | 1 | 1 | 1 | 2 | 2 | 1 | 4 | 1 | 1 | 0 | 0 | 0 | 6 | 2 | 1 | 2 | 3 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 5 | 1 | N | N | N | N | N | NO | CAN |
| 104 | 30 | 1 | 3 | 1 | 2 | 2 | 4 | 1 | 1 | 1 | 6 | 3 | 1 | 0 | 0 | 0 | 0 | 6 | 1 | 1 | 2 | 2 | 1 | 6 | 3 | 2 | 2 | 2 | 2 | 2 | 1 | 3,4 | 2 | P | P | P | p | n | YES | TV/MPC/HIV | |
| 105 | 28 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 6 | 1 | 1 | 2 | 3 | 2 | 4 | 3 | 1 | 1 | 2 | 1 | 1 | 2 | 4 | 1 | p | p | p | n | n | NO | TV | |
| 106 | 40 | 1 | 3 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 7 | 4 | 1 | 1 | 0 | 0 | 0 | 6 | 1 | 1 | 2 | 2 | 2 | 3 | 2 | 1 | 1 | 2 | 2 | 4 | 1 | 1 | 1 | N | N | N | N | N | NO | BV | |
| 107 | 23 | 1 | 3 | 2 | 1 | 1 | 1 | 2 | 2 | 1 | 1 | 4 | 1 | 1 | 0 | 0 | 0 | 6 | 1 | 1 | 2 | 1 | 1 | 5 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 6 | 1 | N | N | N | N | N | NO | NV |
| 108 | 36 | 1 | 4 | 2 | 1 | 2 | 1 | 1 | 1 | 1 | 2 | 4 | 1 | 1 | 0 | 0 | 0 | 6 | 2 | 1 | 2 | 3 | 2 | 6 | 3 | 1 | 1 | 2 | 1 | 1 | 1 | 1 | 3,4 | 1 | N | N | N | N | N | NO | MPC |
| 109 | 24 | 1 | 4 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 7 | 4 | 1 | 1 | 0 | 0 | 0 | 6 | 1 | 1 | 2 | 2 | 1 | 6 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 6 | 1 | N | N | N | N | N | NO | NV |
| 110 | 23 | 1 | 4 | 0 | 1 | 1 | 1 | 2 | 2 | 1 | 1 | 4 | 1 | 1 | 0 | 0 | 0 | 6 | 1 | 1 | 1 | 1 | 1 | 5 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 6 | 1 | N | N | N | N | N | NO | NV |
| 111 | 48 | 1 | 4 | 0 | 1 | 1 | 1 | 2 | 1 | 1 | 7 | 4 | 1 | 1 | 0 | 0 | 0 | 6 | 1 | 1 | 1 | 1 | 1 | 5 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 6 | 1 | N | N | N | N | N | NO | NV |
| 112 | 38 | 1 | 3 | 2 | 1 | 1 | 1 | 1 | 2 | 2 | 1 | 4 | 1 | 1 | 0 | 0 | 0 | 6 | 2 | 1 | 2 | 3 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 3 | 1 | 5 | 1 | N | N | N | N | N | NO | CAN | |
| 113 | 35 | 1 | 4 | 0 | 1 | 1 | 1 | 2 | 1 | 1 | 7 | 4 | 1 | 1 | 0 | 0 | 0 | 6 | 1 | 1 | 1 | 1 | 1 | 5 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 6 | 1 | N | N | N | N | N | NO | NV |
| 114 | 31 | 1 | 4 | 0 | 1 | 1 | 1 | 2 | 1 | 1 | 1 | 4 | 1 | 1 | 0 | 0 | 0 | 6 | 1 | 1 | 1 | 1 | 1 | 5 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 6 | 1 | N | N | N | N | N | NO | NV |
| 115 | 47 | 1 | 3 | 2 | 1 | 1 | 1 | 1 | 1 | 2 | 7 | 4 | 1 | 1 | 0 | 0 | 0 | 6 | 1 | 1 | 2 | 1 | 2 | 5 | 1 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 3,4 | 1 | N | N | N | N | N | NO | MPC |
| 116 | 27 | 1 | 3 | 2 | 1 | 1 | 1 | 1 | 3 | 2 | 1 | 4 | 1 | 1 | 0 | 0 | 0 | 6 | 1 | 1 | 2 | 1 | 1 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 6 | 1 | N | N | N | N | N | NO | PHY |
| 117 | 31 | 1 | 3 | 2 | 1 | 1 | 1 | 1 | 3 | 1 | 3 | 4 | 1 | 1 | 0 | 0 | 0 | 6 | 1 | 1 | 2 | 2 | 2 | 3 | 1 | 1 | 1 | 2 | 2 | 1 | 1 | 1 | 1 | 1 | N | N | N | N | N | NO | BV |
| 118 | 45 | 1 | 4 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 6 | 4 | 1 | 1 | 0 | 0 | 0 | 6 | 1 | 1 | 2 | 2 | 1 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | N | N | N | N | N | NO | NV |

| serialno | Age (yrs) | Residence | SE status | Educational status | Marital status | Pre/extramartial contact | Husband with extramarital contact | Involvement in prostitution | Contraception | obstetric history | Symptoms in partner | Past h/o PID/infertility | Treatment received within 3 months | Substance abuse | Age at onset (yrs) | Duration of vaginal discharge (days) | Relation to menstruation | others | Vulvar examination | Genital ulcers | vaginal discharge | Discharge amount | Discharge odour | Discharge consistency | Discharge colour | Cervical examination | Adnexal tenderness | pH range | Whiff test | Wet mount | KOH mount | grams stain of cervical dx | Pap Smear | Trichomonas culture on 3rd day | Trichomonas culture on 5th day | Trichomonas culture on 7th day | HIV | VDRL | Coexisting STI | Diagnosis | |
|----------|-----------|-----------|-----------|--------------------|----------------|--------------------------|-----------------------------------|-----------------------------|---------------|-------------------|---------------------|--------------------------|------------------------------------|-----------------|--------------------|--------------------------------------|--------------------------|--------|--------------------|----------------|-------------------|------------------|-----------------|-----------------------|------------------|----------------------|--------------------|----------|------------|-----------|-----------|----------------------------|-----------|--------------------------------|--------------------------------|--------------------------------|-----|------|----------------|-----------|----|
| 119 | 30 | 2 | 3 | 0 | 1 | 1 | 1 | 1 | 2 | 2 | 7 | 4 | 1 | 1 | 0 | 0 | 0 | 6 | 1 | 1 | 2 | 1 | 1 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 6 | 1 | N | N | N | N | N | NO | NV | |
| 120 | 25 | 1 | 4 | 2 | 1 | 1 | 3 | 1 | 2 | 2 | 6 | 4 | 1 | 1 | 0 | 0 | 0 | 6 | 1 | 1 | 1 | 1 | 1 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 6 | 1 | N | N | N | N | N | NO | NV | |
| 121 | 27 | 1 | 3 | 1 | 1 | 1 | 2 | 1 | 3 | 1 | 1 | 4 | 1 | 1 | 0 | 0 | 0 | 6 | 1 | 1 | 2 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 3 | 2 | 5 | 1 | N | N | N | N | N | NO | CAN | |
| 122 | 24 | 1 | 4 | 1 | 2 | 1 | 1 | 2 | 3 | 1 | 1 | 4 | 1 | 1 | 0 | 0 | 0 | 6 | 1 | 1 | 1 | 1 | 1 | 6 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 5 | 1 | N | N | N | N | N | NO | NV | |
| 123 | 35 | 1 | 4 | 0 | 1 | 1 | 1 | 1 | 1 | 2 | 6 | 4 | 1 | 1 | 0 | 0 | 0 | 6 | 1 | 1 | 2 | 2 | 1 | 5 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 6 | 1 | N | N | N | N | N | NO | NV | |
| 124 | 19 | 1 | 4 | 2 | 2 | 1 | 4 | 1 | 4 | 4 | 6 | 4 | 1 | 1 | 0 | 0 | 0 | 6 | 1 | 1 | 2 | 2 | 1 | 3 | 1 | 1 | 1 | 1 | 2 | 1 | 1 | 1,4 | 1 | N | N | N | N | N | NO | BV | |
| 125 | 26 | 1 | 3 | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 6 | 4 | 1 | 1 | 0 | 0 | 0 | 6 | 1 | 1 | 2 | 1 | 1 | 6 | 1 | 1 | 1 | 2 | 1 | 4 | 12 | 6 | 1 | N | N | N | N | N | NO | NV | |
| 126 | 45 | 1 | 3 | 2 | 1 | 1 | 2 | 1 | 1 | 1 | 3 | 4 | 1 | 1 | 0 | 0 | 0 | 6 | 3 | 1 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 3 | 1 | 6 | 1 | N | N | N | N | N | NO | CAN | | |
| 127 | 40 | 1 | 3 | 1 | 1 | 1 | 3 | 1 | 1 | 1 | 1 | 4 | 1 | 1 | 0 | 0 | 0 | 6 | 1 | 1 | 1 | 1 | 1 | 5 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 6 | 1 | N | N | N | N | N | NO | NV | |
| 128 | 31 | 1 | 3 | 0 | 1 | 1 | 1 | 1 | 1 | 2 | 6 | 4 | 1 | 1 | 0 | 0 | 0 | 6 | 3 | 1 | 2 | 1 | 1 | 6 | 1 | 1 | 1 | 1 | 2 | 3 | 2 | 6 | 1 | N | N | N | N | N | NO | NV | |
| 129 | 21 | 1 | 4 | 1 | 1 | 1 | 3 | 1 | 2 | 1 | 6 | 4 | 1 | 1 | 0 | 0 | 0 | 6 | 1 | 1 | 2 | 1 | 1 | 3 | 1 | 1 | 1 | 2 | 2 | 4 | 1 | 1 | 1 | N | N | N | N | N | NO | BV | |
| 130 | 38 | 1 | 4 | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 1 | 4 | 1 | 1 | 0 | 0 | 0 | 6 | 1 | 1 | 2 | 2 | 1 | 6 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | N | N | N | N | N | NO | NV |
| 131 | 36 | 1 | 4 | 0 | 1 | 1 | 1 | 2 | 1 | 1 | 1 | 4 | 1 | 1 | 0 | 0 | 0 | 6 | 1 | 1 | 1 | 1 | 1 | 5 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 6 | 1 | N | N | N | N | N | NO | NV | |
| 132 | 33 | 1 | 4 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 7 | 4 | 1 | 1 | 0 | 0 | 0 | 6 | 1 | 1 | 2 | 2 | 1 | 6 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 6 | 1 | N | N | N | N | N | NO | NV | |
| 133 | 40 | 1 | 3 | 2 | 1 | 1 | 1 | 2 | 1 | 1 | 1 | 4 | 1 | 1 | 0 | 0 | 0 | 6 | 1 | 1 | 1 | 1 | 1 | 5 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 6 | 1 | N | N | N | N | N | NO | NV | |
| 134 | 55 | 1 | 3 | 2 | 1 | 1 | 1 | 1 | 2 | 2 | 1 | 4 | 1 | 1 | 0 | 0 | 0 | 6 | 2 | 1 | 2 | 3 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 3 | 1 | 5 | 1 | N | N | N | N | N | NO | CAN | |
| 135 | 25 | 1 | 3 | 0 | 1 | 1 | 1 | 2 | 3 | 1 | 1 | 4 | 1 | 1 | 0 | 0 | 0 | 6 | 1 | 1 | 1 | 1 | 1 | 5 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 6 | 1 | N | N | N | N | N | NO | NV | |
| 136 | 25 | 1 | 4 | 1 | 1 | 1 | 1 | 2 | 3 | 1 | 1 | 4 | 1 | 1 | 0 | 0 | 0 | 6 | 1 | 1 | 1 | 1 | 1 | 5 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 6 | 1 | N | N | N | N | N | NO | NV | |
| 137 | 35 | 1 | 3 | 0 | 1 | 1 | 1 | 2 | 3 | 1 | 1 | 4 | 1 | 1 | 0 | 0 | 0 | 6 | 1 | 1 | 1 | 1 | 1 | 5 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 1 | N | N | N | N | N | NO | others | |
| 138 | 26 | 1 | 4 | 2 | 1 | 1 | 1 | 2 | 3 | 1 | 1 | 4 | 1 | 1 | 0 | 0 | 0 | 6 | 1 | 1 | 1 | 1 | 1 | 5 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 6 | 1 | N | N | N | N | N | NO | NV | |
| 139 | 43 | 1 | 2 | 0 | 1 | 1 | 1 | 2 | 3 | 1 | 1 | 4 | 1 | 1 | 0 | 0 | 0 | 6 | 1 | 1 | 1 | 1 | 1 | 5 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 6 | 1 | N | N | N | N | N | NO | NV | |
| 140 | 36 | 1 | 4 | 2 | 1 | 2 | 1 | 1 | 1 | 1 | 2 | 4 | 1 | 1 | 0 | 0 | 0 | 6 | 2 | 1 | 2 | 3 | 2 | 6 | 3 | 1 | 1 | 2 | 1 | 1 | 1 | 3,4 | 1 | N | N | N | N | N | NO | MPC | |
| 141 | 29 | 1 | 4 | 0 | 1 | 1 | 1 | 2 | 3 | 1 | 1 | 4 | 1 | 1 | 0 | 0 | 0 | 6 | 1 | 1 | 1 | 1 | 1 | 5 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 6 | 1 | N | N | N | N | N | NO | NV | |
| 142 | 35 | 1 | 3 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 4 | 1 | 2 | 0 | 0 | 0 | 6 | 1 | 1 | 2 | 2 | 1 | 6 | 1 | 1 | 2 | 2 | 2 | 1 | 2 | 4 | 1 | P | P | P | n | n | NO | TV | |
| 143 | 27 | 1 | 4 | 2 | 1 | 2 | 1 | 1 | 1 | 1 | 2 | 4 | 1 | 1 | 0 | 0 | 0 | 6 | 2 | 1 | 2 | 3 | 2 | 6 | 3 | 1 | 1 | 2 | 1 | 1 | 1 | 3,4 | 1 | N | N | N | N | N | NO | MPC | |
| 144 | 50 | 1 | 4 | 0 | 1 | 1 | 1 | 2 | 3 | 1 | 1 | 4 | 1 | 1 | 0 | 0 | 0 | 6 | 1 | 1 | 1 | 1 | 1 | 5 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 6 | 1 | N | N | N | N | N | NO | NV | |
| 145 | 40 | 1 | 2 | 0 | 1 | 1 | 1 | 2 | 3 | 1 | 1 | 4 | 1 | 1 | 0 | 0 | 0 | 6 | 1 | 1 | 1 | 1 | 1 | 5 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 6 | 1 | N | N | N | N | N | NO | NV | |
| 146 | 36 | 1 | 4 | 2 | 1 | 2 | 1 | 1 | 1 | 1 | 2 | 4 | 1 | 1 | 0 | 0 | 0 | 6 | 2 | 1 | 2 | 3 | 2 | 6 | 3 | 1 | 1 | 2 | 1 | 1 | 1 | 3,4 | 1 | N | N | N | N | N | NO | MPC | |
| 147 | 20 | 2 | 4 | 0 | 1 | 1 | 1 | 2 | 3 | 1 | 1 | 4 | 1 | 1 | 0 | 0 | 0 | 6 | 1 | 1 | 1 | 1 | 1 | 5 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 6 | 1 | N | N | N | N | N | NO | NV | |
| 148 | 28 | 1 | 3 | 1 | 1 | 1 | 1 | 2 | 3 | 1 | 1 | 4 | 1 | 1 | 0 | 0 | 0 | 6 | 1 | 1 | 1 | 1 | 1 | 5 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 6 | 1 | N | N | N | N | N | NO | NV | |

| serialno | Age (yrs) | Residence | SE status | Educational status | Marital status | Pre/extramartial contact | Husband with extramarital contact | Involvement in prostitution | Contraception | obstetric history | Symptoms in partner | Past h/o PID/infertility | Treatment received within 3 months | Substance abuse | Age at onset (yrs) | Duration of vaginal discharge (days) | Relation to menstruation | others | Vulvar examination | Genital ulcers | vaginal discharge | Discharge amount | Discharge odour | Discharge consistency | Discharge colour | Cervical examination | Adnexal tenderness | pH range | Whiff test | Wet mount | KOH mount | grams stain of cervical dx | Pap Smear | Trichomonas culture on 3rd day | Trichomonas culture on 5th day | Trichomonas culture on 7th day | HIV | VDRL | Coexisting STI | Diagnosis |
|----------|-----------|-----------|-----------|--------------------|----------------|--------------------------|-----------------------------------|-----------------------------|---------------|-------------------|---------------------|--------------------------|------------------------------------|-----------------|--------------------|--------------------------------------|--------------------------|--------|--------------------|----------------|-------------------|------------------|-----------------|-----------------------|------------------|----------------------|--------------------|----------|------------|-----------|-----------|----------------------------|-----------|--------------------------------|--------------------------------|--------------------------------|-----|------|----------------|-----------|
| 149 | 50 | 1 | 4 | 2 | 1 | 2 | 1 | 1 | 1 | 1 | 2 | 4 | 1 | 1 | 0 | 0 | 0 | 6 | 2 | 1 | 2 | 3 | 2 | 6 | 3 | 1 | 1 | 2 | 1 | 1 | 1 | 3,4 | 1 | N | N | N | N | N | NO | MPC |
| 150 | 28 | 1 | 3 | 1 | 1 | 1 | 1 | 2 | 3 | 1 | 1 | 4 | 1 | 1 | 0 | 0 | 0 | 6 | 1 | 1 | 1 | 1 | 1 | 5 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 6 | 1 | N | N | N | N | N | NO | NV |
| 151 | 32 | 1 | 4 | 0 | 1 | 1 | 1 | 2 | 3 | 1 | 1 | 4 | 1 | 1 | 0 | 0 | 0 | 6 | 1 | 1 | 1 | 1 | 1 | 5 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 6 | 1 | N | N | N | N | N | NO | NV |
| 152 | 32 | 1 | 3 | 1 | 1 | 1 | 1 | 2 | 3 | 1 | 1 | 4 | 1 | 1 | 0 | 0 | 0 | 6 | 1 | 1 | 1 | 1 | 1 | 5 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 6 | 1 | N | N | N | N | N | NO | NV |
| 153 | 30 | 1 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 1 | 4 | 1 | 1 | 0 | 0 | 0 | 6 | 1 | 1 | 2 | 2 | 1 | 3 | 2 | 1 | 1 | 2 | 2 | 4 | 1 | 1 | n | n | n | n | n | n | NO | BV |
| 154 | 28 | 1 | 4 | 2 | 1 | 1 | 1 | 2 | 3 | 1 | 1 | 4 | 1 | 1 | 0 | 0 | 0 | 6 | 1 | 1 | 1 | 1 | 1 | 5 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 6 | 1 | N | N | N | N | N | NO | NV |
| 155 | 33 | 1 | 3 | 2 | 1 | 1 | 1 | 1 | 2 | 2 | 1 | 4 | 1 | 1 | 0 | 0 | 0 | 6 | 2 | 1 | 2 | 3 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 3 | 1 | 6 | 1 | N | N | N | N | N | NO | CAN |
| 156 | 26 | 1 | 3 | 1 | 1 | 1 | 1 | 2 | 3 | 1 | 1 | 4 | 1 | 1 | 0 | 0 | 0 | 6 | 1 | 1 | 1 | 1 | 1 | 5 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 6 | 1 | N | N | N | N | N | NO | NV |
| 157 | 28 | 1 | 4 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 7 | 4 | 1 | 1 | 0 | 0 | 0 | 6 | 1 | 1 | 2 | 2 | 1 | 6 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 6 | 1 | N | N | N | N | N | NO | NV |
| 158 | 36 | 1 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 1 | 4 | 1 | 1 | 0 | 0 | 0 | 6 | 1 | 1 | 2 | 2 | 1 | 3 | 2 | 1 | 1 | 2 | 2 | 4 | 1 | 1 | 1 | n | n | n | n | n | NO | BV |
| 159 | 42 | 1 | 3 | 0 | 1 | 1 | 1 | 2 | 3 | 1 | 1 | 4 | 1 | 1 | 0 | 0 | 0 | 6 | 1 | 1 | 1 | 1 | 1 | 5 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 6 | 1 | N | N | N | N | N | NO | NV |
| 160 | 45 | 1 | 3 | 2 | 1 | 1 | 1 | 1 | 2 | 2 | 1 | 4 | 1 | 1 | 0 | 0 | 0 | 6 | 2 | 1 | 2 | 3 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 3.5 | 1 | N | N | N | N | N | NO | CAN |
| 161 | 39 | 1 | 3 | 2 | 1 | 1 | 1 | 1 | 2 | 2 | 1 | 4 | 1 | 1 | 0 | 0 | 0 | 6 | 2 | 1 | 2 | 3 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 3 | 1 | 5 | 1 | N | N | N | N | N | NO | CAN |
| 162 | 40 | 1 | 4 | 0 | 1 | 2 | 1 | 1 | 1 | 1 | 2 | 4 | 1 | 1 | 0 | 0 | 0 | 6 | 2 | 1 | 2 | 3 | 2 | 6 | 3 | 1 | 1 | 2 | 1 | 1 | 1 | 3,4 | 1 | N | N | N | N | N | NO | MPC |
| 163 | 28 | 1 | 3 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 1 | 4 | 1 | 1 | 0 | 0 | 0 | 6 | 1 | 1 | 2 | 2 | 3 | 4 | 3 | 1 | 1 | 2 | 2 | 2 | 1 | 1,3 | 1 | P | P | P | N | N | YES | TV/BV |
| 164 | 32 | 1 | 4 | 0 | 1 | 1 | 1 | 2 | 3 | 1 | 1 | 4 | 1 | 1 | 0 | 0 | 0 | 6 | 1 | 1 | 1 | 1 | 1 | 5 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 6 | 1 | N | N | N | N | N | NO | NV |
| 165 | 48 | 1 | 3 | 2 | 1 | 1 | 1 | 2 | 3 | 1 | 1 | 4 | 1 | 1 | 0 | 0 | 0 | 6 | 1 | 1 | 1 | 1 | 1 | 5 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 6 | 1 | N | N | N | N | N | NO | NV |
| 166 | 30 | 1 | 4 | 2 | 1 | 2 | 1 | 1 | 1 | 1 | 2 | 4 | 1 | 1 | 0 | 0 | 0 | 6 | 2 | 1 | 2 | 3 | 2 | 6 | 3 | 1 | 1 | 2 | 1 | 1 | 1 | 3,4 | 1 | N | N | N | N | N | NO | MPC |
| 167 | 35 | 2 | 3 | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 1 | 4 | 1 | 1 | 0 | 0 | 0 | 6 | 2 | 1 | 2 | 3 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 3 | 1 | 5 | 1 | N | N | N | N | N | NO | CAN |
| 168 | 54 | 1 | 3 | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 1 | 4 | 1 | 1 | 0 | 0 | 0 | 6 | 2 | 1 | 2 | 3 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 3 | 1 | 5 | 1 | N | N | N | N | N | NO | CAN |
| 169 | 21 | 1 | 4 | 0 | 1 | 1 | 1 | 2 | 3 | 1 | 1 | 4 | 1 | 1 | 0 | 0 | 0 | 6 | 1 | 1 | 1 | 1 | 1 | 5 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 6 | 1 | N | N | N | N | N | NO | NV |
| 170 | 50 | 1 | 4 | 1 | 1 | 1 | 1 | 2 | 3 | 1 | 1 | 4 | 1 | 1 | 0 | 0 | 0 | 6 | 1 | 1 | 1 | 1 | 1 | 5 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 6 | 1 | N | N | N | N | N | NO | NV |
| 171 | 50 | 1 | 4 | 0 | 1 | 1 | 1 | 2 | 3 | 1 | 1 | 4 | 1 | 1 | 0 | 0 | 0 | 6 | 1 | 1 | 1 | 1 | 1 | 5 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 6 | 1 | N | N | N | N | N | NO | NV |
| 172 | 30 | 1 | 3 | 2 | 1 | 1 | 1 | 1 | 2 | 2 | 1 | 4 | 1 | 1 | 0 | 0 | 0 | 6 | 2 | 1 | 2 | 3 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 3 | 1 | 5 | 1 | N | N | N | N | N | NO | CAN |
| 173 | 28 | 1 | 4 | 2 | 1 | 2 | 1 | 1 | 1 | 1 | 2 | 4 | 1 | 1 | 0 | 0 | 0 | 6 | 2 | 1 | 2 | 3 | 2 | 6 | 3 | 1 | 1 | 2 | 1 | 1 | 1 | 3,4 | 1 | N | N | N | N | N | NO | HIV |
| 174 | 50 | 1 | 3 | 2 | 1 | 1 | 1 | 1 | 2 | 2 | 1 | 4 | 1 | 1 | 0 | 0 | 0 | 6 | 2 | 1 | 2 | 3 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 5 | 1 | N | N | N | N | N | NO | CAN |
| 175 | 40 | 1 | 4 | 2 | 1 | 2 | 1 | 1 | 1 | 1 | 2 | 4 | 1 | 1 | 0 | 0 | 0 | 6 | 2 | 1 | 2 | 3 | 2 | 6 | 3 | 1 | 1 | 2 | 1 | 1 | 1 | 3,4 | 1 | N | N | N | N | N | NO | MPC |
| 176 | 48 | 1 | 4 | 1 | 1 | 1 | 1 | 2 | 3 | 1 | 1 | 4 | 1 | 1 | 0 | 0 | 0 | 6 | 1 | 1 | 1 | 1 | 1 | 5 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 6 | 1 | N | N | N | N | N | NO | NV |
| 177 | 45 | 1 | 4 | 0 | 1 | 1 | 1 | 2 | 3 | 1 | 1 | 4 | 1 | 1 | 0 | 0 | 0 | 6 | 1 | 1 | 1 | 1 | 1 | 5 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 6 | 1 | N | N | N | N | N | NO | NV |
| 178 | 28 | 1 | 4 | 2 | 1 | 1 | 1 | 2 | 3 | 1 | 1 | 4 | 1 | 1 | 0 | 0 | 0 | 6 | 1 | 1 | 1 | 1 | 1 | 5 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 6 | 1 | N | N | N | N | N | NO | NV |

| serialno | Age (yrs) | Residence | SE status | Educational status | Marital status | Pre/extramartial contact | Husband with extramarital contact | Involvement in prostitution | Contraception | obstetric history | Symptoms in partner | Past h/o PID/infertility | Treatment received within 3 months | Substance abuse | Age at onset (yrs) | Duration of vaginal discharge (days) | Relation to menstruation | others | Vulvar examination | Genital ulcers | vaginal discharge | Discharge amount | Discharge odour | Discharge consistency | Discharge colour | Cervical examination | Adnexal tenderness | pH range | Whiff test | Wet mount | KOH mount | grams stain of cervical dx | Pap Smear | Trichomonas culture on 3rd day | Trichomonas culture on 5th day | Trichomonas culture on 7th day | HIV | VDRL | Coexisting STI | Diagnosis |
|----------|-----------|-----------|-----------|--------------------|----------------|--------------------------|-----------------------------------|-----------------------------|---------------|-------------------|---------------------|--------------------------|------------------------------------|-----------------|--------------------|--------------------------------------|--------------------------|--------|--------------------|----------------|-------------------|------------------|-----------------|-----------------------|------------------|----------------------|--------------------|----------|------------|-----------|-----------|----------------------------|-----------|--------------------------------|--------------------------------|--------------------------------|-----|------|----------------|-----------|
| 179 | 30 | 1 | 4 | 1 | 1 | 2 | 3 | 1 | 1 | 1 | 2 | 4 | 1 | 0 | 0 | 0 | 0 | 6 | 1 | 1 | 2 | 2 | 1 | 5 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 6 | 1 | P | P | P | N | N | NO | TV |
| 180 | 23 | 1 | 4 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 7 | 4 | 1 | 1 | 0 | 0 | 0 | 6 | 1 | 1 | 2 | 2 | 1 | 6 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 6 | 1 | N | N | N | N | N | NO | NV |
| 181 | 55 | 1 | 3 | 2 | 1 | 1 | 1 | 2 | 3 | 1 | 1 | 4 | 1 | 1 | 0 | 0 | 0 | 6 | 1 | 1 | 1 | 1 | 1 | 5 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 5 | 1 | N | N | N | N | N | NO | PHY |
| 182 | 19 | 1 | 3 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 1 | 4 | 1 | 1 | 0 | 0 | 0 | 6 | 1 | 1 | 2 | 1 | 1 | 2 | 1 | 1 | 1 | 2 | 2 | 2 | 1 | 1,4 | 1 | P | P | P | N | N | YES | TV/BV |
| 183 | 22 | 1 | 4 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 7 | 4 | 1 | 1 | 0 | 0 | 0 | 6 | 1 | 1 | 2 | 2 | 1 | 6 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 6 | 1 | N | N | N | N | N | NO | NV |
| 184 | 41 | 1 | 4 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 7 | 4 | 1 | 1 | 0 | 0 | 0 | 6 | 1 | 1 | 2 | 2 | 1 | 6 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 6 | 1 | N | N | N | N | N | NO | NV |
| 185 | 41 | 1 | 4 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 7 | 4 | 1 | 1 | 0 | 0 | 0 | 6 | 1 | 1 | 2 | 2 | 1 | 6 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 6 | 1 | N | N | N | N | N | NO | NV |
| 186 | 36 | 1 | 4 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 7 | 4 | 1 | 1 | 0 | 0 | 0 | 6 | 1 | 1 | 2 | 2 | 1 | 6 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 6 | 1 | N | N | N | N | N | NO | NV |
| 187 | 30 | 1 | 3 | 1 | 2 | 2 | 3 | 1 | 1 | 2 | 1 | 4 | 1 | 1 | 0 | 0 | 0 | 6 | 1 | 1 | 2 | 3 | 2 | 5 | 1 | 1 | 1 | 2 | 2 | 2 | 1 | 4 | 1 | N | P | P | P | N | YES | TV/BV |
| 188 | 38 | 2 | 4 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 7 | 4 | 1 | 1 | 0 | 0 | 0 | 6 | 1 | 1 | 2 | 2 | 1 | 6 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 6 | 1 | N | N | N | N | N | NO | NV |
| 189 | 55 | 1 | 4 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 7 | 4 | 1 | 1 | 0 | 0 | 0 | 6 | 1 | 1 | 2 | 2 | 1 | 6 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 6 | 1 | N | N | N | N | N | NO | NV |
| 190 | 28 | 1 | 3 | 2 | 1 | 1 | 1 | 1 | 2 | 2 | 1 | 4 | 1 | 1 | 0 | 0 | 0 | 6 | 2 | 1 | 2 | 3 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 5 | 1 | N | N | N | N | N | NO | CAN |
| 191 | 46 | 1 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 1 | 4 | 1 | 1 | 0 | 0 | 0 | 6 | 1 | 1 | 2 | 2 | 1 | 3 | 2 | 1 | 1 | 2 | 2 | 4 | 1 | 1 | 1 | N | N | N | N | N | NO | BV |
| 192 | 36 | 1 | 4 | 2 | 1 | 2 | 1 | 1 | 1 | 1 | 2 | 4 | 1 | 1 | 0 | 0 | 0 | 6 | 2 | 1 | 2 | 3 | 2 | 6 | 3 | 1 | 1 | 2 | 1 | 1 | 1 | 3,4 | 1 | N | N | N | N | N | NO | MPC |
| 193 | 33 | 1 | 4 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 7 | 4 | 1 | 1 | 0 | 0 | 0 | 6 | 1 | 1 | 2 | 2 | 1 | 6 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 6 | 1 | N | N | N | N | N | NO | NV |
| 194 | 34 | 1 | 4 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 7 | 4 | 1 | 1 | 0 | 0 | 0 | 6 | 1 | 1 | 2 | 2 | 1 | 6 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 6 | 1 | N | N | N | N | N | NO | NV |
| 195 | 20 | 1 | 4 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 7 | 4 | 1 | 1 | 0 | 0 | 0 | 6 | 1 | 1 | 2 | 2 | 1 | 6 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 6 | 1 | N | N | N | N | N | NO | HIV |
| 196 | 28 | 1 | 4 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 7 | 4 | 1 | 1 | 0 | 0 | 0 | 6 | 1 | 1 | 2 | 2 | 1 | 6 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 6 | 1 | N | N | N | N | N | NO | NV |
| 197 | 32 | 1 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 1 | 4 | 1 | 1 | 0 | 0 | 0 | 6 | 1 | 1 | 2 | 2 | 1 | 3 | 2 | 1 | 1 | 2 | 2 | 4 | 1 | 1 | 1 | N | N | N | N | N | NO | BV |
| 198 | 22 | 1 | 3 | 2 | 1 | 1 | 1 | 1 | 2 | 2 | 1 | 4 | 1 | 1 | 0 | 0 | 0 | 6 | 2 | 1 | 2 | 3 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 3 | 1 | 5 | 1 | N | N | N | N | N | NO | CAN |
| 199 | 18 | 1 | 4 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 7 | 4 | 1 | 1 | 0 | 0 | 0 | 6 | 1 | 1 | 2 | 2 | 1 | 6 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 6 | 1 | N | N | N | N | N | NO | NV |
| 200 | 28 | 1 | 4 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 7 | 4 | 1 | 1 | 0 | 0 | 0 | 6 | 1 | 1 | 2 | 2 | 1 | 6 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 6 | 1 | N | N | N | N | N | NO | NV |
| 201 | 27 | 1 | 4 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 7 | 4 | 1 | 1 | 0 | 0 | 0 | 6 | 1 | 1 | 2 | 2 | 1 | 6 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 6 | 1 | N | N | N | N | N | NO | HIV |
| 202 | 45 | 1 | 4 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 7 | 4 | 1 | 1 | 0 | 0 | 0 | 6 | 1 | 1 | 2 | 2 | 1 | 6 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 6 | 1 | N | N | N | N | N | NO | NV |
| 203 | 25 | 2 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 1 | 4 | 1 | 1 | 0 | 0 | 0 | 6 | 1 | 1 | 2 | 2 | 1 | 3 | 2 | 1 | 1 | 2 | 2 | 4 | 1 | 1 | 1 | N | N | N | N | N | NO | BV |
| 204 | 25 | 1 | 4 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 7 | 4 | 1 | 1 | 0 | 0 | 0 | 6 | 1 | 1 | 2 | 2 | 1 | 6 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 6 | 1 | N | N | N | N | N | NO | NV |
| 205 | 24 | 1 | 4 | 2 | 1 | 2 | 1 | 1 | 1 | 1 | 2 | 4 | 1 | 1 | 0 | 0 | 0 | 6 | 2 | 1 | 2 | 3 | 2 | 6 | 3 | 1 | 1 | 2 | 1 | 1 | 1 | 3,4 | 1 | N | N | N | N | N | NO | MPC |
| 206 | 27 | 1 | 4 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 7 | 4 | 1 | 1 | 0 | 0 | 0 | 6 | 1 | 1 | 2 | 2 | 1 | 6 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 6 | 1 | N | N | N | N | N | NO | NV |
| 207 | 28 | 1 | 3 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 7 | 4 | 1 | 1 | 0 | 0 | 0 | 6 | 1 | 1 | 2 | 2 | 2 | 3 | 2 | 1 | 1 | 2 | 2 | 4 | 1 | 1 | 1 | N | N | N | N | N | NO | CAN/BV |
| 208 | 38 | 1 | 4 | 2 | 1 | 2 | 1 | 1 | 1 | 1 | 2 | 4 | 1 | 1 | 0 | 0 | 0 | 6 | 2 | 1 | 2 | 3 | 2 | 6 | 3 | 1 | 1 | 2 | 1 | 1 | 1 | 3,4 | 1 | N | N | N | N | N | NO | MPC |

| serialno | Age (yrs) | Residence | SE status | Educational status | Marital status | Pre/extramartial contact | Husband with extramarital contact | Involvement in prostitution | Contraception | obstetric history | Symptoms in partner | Past h/o PID/infertility | Treatment received within 3 months | Substance abuse | Age at onset (yrs) | Duration of vaginal discharge (days) | Relation to menstruation | others | Vulvar examination | Genital ulcers | vaginal discharge | Discharge amount | Discharge odour | Discharge consistency | Discharge colour | Cervical examination | Adnexal tenderness | pH range | Whiff test | Wet mount | KOH mount | grams stain of cervical dx | Pap Smear | Trichomonas culture on 3rd day | Trichomonas culture on 5th day | Trichomonas culture on 7th day | HIV | VDRL | Coexisting STI | Diagnosis |
|----------|-----------|-----------|-----------|--------------------|----------------|--------------------------|-----------------------------------|-----------------------------|---------------|-------------------|---------------------|--------------------------|------------------------------------|-----------------|--------------------|--------------------------------------|--------------------------|--------|--------------------|----------------|-------------------|------------------|-----------------|-----------------------|------------------|----------------------|--------------------|----------|------------|-----------|-----------|----------------------------|-----------|--------------------------------|--------------------------------|--------------------------------|-----|------|----------------|-----------|
| 209 | 36 | 1 | 4 | 2 | 1 | 1 | 1 | 2 | 3 | 1 | 1 | 4 | 1 | 1 | 0 | 0 | 0 | 6 | 1 | 1 | 1 | 1 | 1 | 5 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 6 | 1 | N | N | N | N | N | NO | NV |
| 210 | 55 | 1 | 4 | 1 | 1 | 1 | 1 | 2 | 3 | 1 | 1 | 4 | 1 | 1 | 0 | 0 | 0 | 6 | 1 | 1 | 1 | 1 | 1 | 5 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 6 | 1 | N | N | N | N | N | NO | NV |
| 211 | 56 | 1 | 4 | 2 | 1 | 2 | 1 | 1 | 1 | 1 | 2 | 4 | 1 | 1 | 0 | 0 | 0 | 6 | 2 | 1 | 2 | 3 | 2 | 6 | 3 | 1 | 1 | 2 | 1 | 1 | 1 | 3,4 | 1 | N | N | N | N | N | NO | MPC |
| 212 | 18 | 1 | 4 | 1 | 1 | 1 | 1 | 2 | 3 | 1 | 1 | 4 | 1 | 1 | 0 | 0 | 0 | 6 | 1 | 1 | 1 | 1 | 1 | 5 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 6 | 1 | N | N | N | N | N | NO | NV |
| 213 | 38 | 1 | 4 | 1 | 1 | 1 | 1 | 2 | 3 | 1 | 1 | 4 | 1 | 1 | 0 | 0 | 0 | 6 | 1 | 1 | 1 | 1 | 1 | 5 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 6 | 1 | N | N | N | N | N | NO | NV |
| 214 | 19 | 1 | 4 | 0 | 1 | 1 | 1 | 2 | 3 | 1 | 1 | 4 | 1 | 1 | 0 | 0 | 0 | 6 | 1 | 1 | 1 | 1 | 1 | 5 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 6 | 1 | N | N | N | N | N | NO | NV |
| 215 | 36 | 1 | 4 | 0 | 1 | 1 | 1 | 2 | 3 | 1 | 1 | 4 | 1 | 1 | 0 | 0 | 0 | 6 | 1 | 1 | 1 | 1 | 1 | 5 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 6 | 1 | N | N | N | N | N | NO | NV |
| 216 | 27 | 2 | 4 | 1 | 1 | 1 | 1 | 2 | 3 | 1 | 1 | 4 | 1 | 1 | 0 | 0 | 0 | 6 | 1 | 1 | 1 | 1 | 1 | 5 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 6 | 1 | N | N | N | N | N | NO | NV |
| 217 | 35 | 1 | 4 | 0 | 1 | 1 | 1 | 2 | 3 | 1 | 1 | 4 | 1 | 1 | 0 | 0 | 0 | 6 | 1 | 1 | 1 | 1 | 1 | 5 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 6 | 1 | N | N | N | N | N | NO | NV |
| 218 | 37 | 2 | 3 | 2 | 1 | 1 | 1 | 1 | 2 | 2 | 1 | 4 | 1 | 1 | 0 | 0 | 0 | 6 | 2 | 1 | 2 | 3 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 3 | 1 | 5 | 1 | N | N | N | N | N | NO | CAN |
| 219 | 39 | 1 | 4 | 0 | 1 | 1 | 1 | 2 | 3 | 1 | 1 | 4 | 1 | 1 | 0 | 0 | 0 | 6 | 1 | 1 | 1 | 1 | 1 | 5 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 6 | 1 | N | N | N | N | N | NO | NV |
| 220 | 26 | 1 | 4 | 2 | 1 | 2 | 1 | 1 | 1 | 1 | 2 | 4 | 1 | 1 | 0 | 0 | 0 | 6 | 2 | 1 | 2 | 3 | 2 | 6 | 3 | 1 | 1 | 2 | 1 | 1 | 1 | 3,4 | 1 | N | N | N | N | N | NO | MPC |
| 221 | 26 | 1 | 4 | 0 | 1 | 1 | 1 | 2 | 3 | 2 | 1 | 4 | 1 | 1 | 0 | 0 | 0 | 6 | 1 | 1 | 1 | 1 | 1 | 5 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 6 | 1 | N | N | N | N | N | NO | NV |
| 222 | 25 | 1 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 1 | 4 | 1 | 1 | 0 | 0 | 0 | 6 | 1 | 1 | 2 | 2 | 1 | 3 | 2 | 1 | 1 | 2 | 2 | 4 | 1 | 1 | 1 | N | N | N | N | N | NO | BV |
| 223 | 27 | 1 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 1 | 4 | 1 | 1 | 0 | 0 | 0 | 6 | 1 | 1 | 2 | 2 | 1 | 3 | 2 | 1 | 1 | 2 | 2 | 4 | 1 | 1 | 1 | N | N | N | N | N | NO | BV |
| 224 | 29 | 1 | 4 | 2 | 1 | 2 | 1 | 1 | 1 | 1 | 2 | 4 | 1 | 1 | 0 | 0 | 0 | 6 | 2 | 1 | 2 | 3 | 2 | 6 | 3 | 1 | 1 | 2 | 1 | 1 | 1 | 3,4 | 1 | N | N | N | N | N | NO | MPC |
| 225 | 37 | 1 | 3 | 2 | 1 | 1 | 1 | 1 | 2 | 1 | 7 | 4 | 1 | 1 | 0 | 0 | 0 | 6 | 2 | 1 | 2 | 3 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 3 | 1 | 5 | 1 | N | N | N | N | N | NO | CAN |
| 226 | 35 | 1 | 3 | 2 | 1 | 1 | 1 | 2 | 3 | 1 | 1 | 4 | 1 | 1 | 0 | 0 | 0 | 6 | 1 | 1 | 1 | 1 | 1 | 5 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 5 | 1 | N | N | N | N | N | NO | PHY |
| 227 | 45 | 1 | 4 | 0 | 1 | 1 | 1 | 2 | 3 | 1 | 1 | 4 | 1 | 1 | 0 | 0 | 0 | 6 | 1 | 1 | 1 | 1 | 1 | 5 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 6 | 1 | N | N | N | N | N | NO | NV |
| 228 | 30 | 1 | 4 | 2 | 1 | 2 | 1 | 1 | 1 | 1 | 2 | 4 | 1 | 1 | 0 | 0 | 0 | 6 | 2 | 1 | 2 | 3 | 2 | 6 | 3 | 1 | 1 | 2 | 1 | 1 | 1 | 3,4 | 1 | N | N | N | N | N | NO | MPC |
| 229 | 20 | 1 | 4 | 0 | 1 | 1 | 1 | 2 | 3 | 1 | 1 | 4 | 1 | 1 | 0 | 0 | 0 | 6 | 1 | 1 | 1 | 1 | 1 | 5 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 6 | 1 | N | N | N | N | N | NO | NV |
| 230 | 24 | 1 | 4 | 0 | 1 | 1 | 1 | 2 | 3 | 1 | 1 | 4 | 1 | 1 | 0 | 0 | 0 | 6 | 1 | 1 | 1 | 1 | 1 | 5 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 6 | 1 | N | N | N | N | N | NO | NV |
| 231 | 24 | 1 | 3 | 2 | 1 | 1 | 1 | 2 | 3 | 1 | 1 | 4 | 1 | 1 | 0 | 0 | 0 | 6 | 1 | 1 | 1 | 1 | 1 | 5 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 5 | 1 | N | N | N | N | N | NO | others |
| 232 | 40 | 1 | 4 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 7 | 4 | 1 | 1 | 0 | 0 | 0 | 6 | 1 | 1 | 2 | 2 | 1 | 6 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 6 | 1 | N | N | N | N | N | NO | NV |
| 233 | 35 | 1 | 4 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 7 | 4 | 1 | 1 | 0 | 0 | 0 | 6 | 1 | 1 | 2 | 2 | 1 | 6 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 6 | 1 | N | N | N | N | N | NO | NV |
| 234 | 48 | 1 | 3 | 2 | 1 | 1 | 1 | 2 | 3 | 1 | 1 | 4 | 1 | 1 | 0 | 0 | 0 | 6 | 1 | 1 | 1 | 1 | 1 | 5 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 5 | 1 | N | N | N | N | N | NO | CAN |
| 235 | 22 | 1 | 4 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 7 | 4 | 1 | 1 | 0 | 0 | 0 | 6 | 1 | 1 | 2 | 2 | 1 | 6 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 6 | 1 | N | N | N | N | N | NO | NV |
| 236 | 35 | 1 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 1 | 4 | 1 | 1 | 0 | 0 | 0 | 6 | 1 | 1 | 2 | 2 | 1 | 3 | 2 | 1 | 1 | 2 | 2 | 4 | 1 | 1 | 1 | N | N | N | N | N | NO | BV |
| 237 | 40 | 1 | 4 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 7 | 4 | 1 | 1 | 0 | 0 | 0 | 6 | 1 | 1 | 2 | 2 | 1 | 6 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 6 | 1 | N | N | N | N | N | NO | NV |
| 238 | 21 | 1 | 3 | 2 | 1 | 1 | 1 | 2 | 3 | 1 | 1 | 4 | 1 | 1 | 0 | 0 | 0 | 6 | 1 | 1 | 1 | 1 | 1 | 5 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 5 | 1 | N | N | N | N | N | NO | NV |

| serialno | Age (yrs) | Residence | SE status | Educational status | Marital status | Pre/extramarital contact | Husband with extramarital contact | Involvement in prostitution | Contraception | obstetric history | Symptoms in partner | Past h/o PID/infertility | Treatment received within 3 months | Substance abuse | Age at onset (yrs) | Duration of vaginal discharge (days) | Relation to menstruation | others | Vulvar examination | Genital ulcers | vaginal discharge | Discharge amount | Discharge odour | Discharge consistency | Discharge colour | Cervical examination | Adnexal tenderness | pH range | Whiff test | Wet mount | KOH mount | grams stain of cervical dx | Pap Smear | Trichomonas culture on 3rd day | Trichomonas culture on 5th day | Trichomonas culture on 7th day | HIV | VDRL | Coexisting STI | Diagnosis |
|----------|-----------|-----------|-----------|--------------------|----------------|--------------------------|-----------------------------------|-----------------------------|---------------|-------------------|---------------------|--------------------------|------------------------------------|-----------------|--------------------|--------------------------------------|--------------------------|--------|--------------------|----------------|-------------------|------------------|-----------------|-----------------------|------------------|----------------------|--------------------|----------|------------|-----------|-----------|----------------------------|-----------|--------------------------------|--------------------------------|--------------------------------|-----|------|----------------|-----------|
| 239 | 23 | 1 | 4 | 2 | 1 | 2 | 1 | 1 | 1 | 1 | 2 | 4 | 1 | 1 | 0 | 0 | 0 | 6 | 2 | 1 | 2 | 3 | 2 | 6 | 3 | 1 | 1 | 2 | 1 | 1 | 1 | 3,4 | 1 | N | N | N | N | N | NO | PHY |
| 240 | 35 | 1 | 3 | 2 | 1 | 1 | 1 | 2 | 3 | 1 | 1 | 4 | 1 | 1 | 0 | 0 | 0 | 6 | 1 | 1 | 1 | 1 | 1 | 5 | 1 | 1 | 1 | 1 | 1 | 1 | 5 | 1 | N | N | N | N | N | NO | NV | |
| 241 | 34 | 1 | 3 | 1 | 1 | 1 | 1 | 2 | 3 | 1 | 1 | 4 | 1 | 1 | 0 | 0 | 0 | 6 | 1 | 1 | 2 | 2 | 1 | 5 | 1 | 1 | 1 | 1 | 1 | 1 | 6 | 1 | N | N | N | N | N | NO | NV | |
| 242 | 24 | 1 | 2 | 1 | 1 | 1 | 1 | 2 | 3 | 1 | 1 | 4 | 1 | 1 | 0 | 0 | 0 | 6 | 1 | 1 | 1 | 1 | 1 | 6 | 1 | 1 | 1 | 1 | 1 | 1 | 5 | 1 | N | N | N | N | N | NO | NV | |
| 243 | 36 | 1 | 3 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 7 | 4 | 1 | 1 | 0 | 0 | 0 | 3 | 1 | 1 | 2 | 2 | 2 | 3 | 2 | 1 | 1 | 2 | 2 | 4 | 1 | 1 | 1 | N | N | N | N | N | NO | BV |
| 244 | 36 | 2 | 3 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 7 | 4 | 1 | 1 | 0 | 0 | 0 | 3 | 1 | 1 | 2 | 2 | 2 | 3 | 2 | 1 | 1 | 2 | 2 | 4 | 1 | 1 | 1 | N | N | N | N | N | NO | BV/CAN |
| 245 | 38 | 1 | 4 | 2 | 1 | 1 | 1 | 2 | 3 | 1 | 1 | 4 | 1 | 1 | 0 | 0 | 0 | 6 | 1 | 1 | 2 | 2 | 1 | 5 | 4 | 1 | 1 | 1 | 1 | 1 | 6 | 1 | N | N | N | N | N | NO | NV | |
| 246 | 40 | 1 | 4 | 2 | 1 | 2 | 1 | 1 | 1 | 1 | 2 | 4 | 1 | 1 | 0 | 0 | 0 | 6 | 2 | 1 | 2 | 3 | 2 | 6 | 3 | 1 | 1 | 2 | 1 | 1 | 1 | 3,4 | 1 | N | N | N | N | N | NO | MPC |
| 247 | 35 | 1 | 4 | 2 | 1 | 2 | 1 | 1 | 1 | 1 | 2 | 4 | 1 | 1 | 0 | 0 | 0 | 6 | 2 | 1 | 2 | 3 | 2 | 6 | 3 | 1 | 1 | 2 | 1 | 1 | 1 | 3,4 | 1 | N | N | N | N | N | NO | MPC |
| 248 | 23 | 1 | 4 | 2 | 1 | 1 | 1 | 2 | 3 | 1 | 1 | 4 | 1 | 1 | 0 | 0 | 0 | 6 | 1 | 1 | 2 | 1 | 1 | 6 | 4 | 1 | 1 | 1 | 1 | 1 | 1 | 6 | 1 | N | N | N | N | N | NO | NV |
| 249 | 45 | 1 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 1 | 4 | 1 | 1 | 0 | 0 | 0 | 6 | 1 | 1 | 2 | 2 | 1 | 3 | 2 | 1 | 1 | 2 | 2 | 4 | 1 | 1 | 1 | N | N | N | N | N | NO | BV |
| 250 | 35 | 2 | 3 | 1 | 1 | 1 | 3 | 1 | 1 | 2 | 1 | 3 | 1 | 1 | 0 | 0 | 0 | 6 | 1 | 1 | 2 | 2 | 1 | 6 | 1 | 1 | 1 | 2 | 1 | 2 | 1 | 6 | 1 | P | P | P | P | N | YES | TV/BV |

MASTER CHART CODING

A. Serial number

B. Std op number

C. Age

D. Socioeconomic status:

1 Upper middle.

2 Lower middle.

3 Upper lower.

4. Lower lower

E. Education status:

1. Nil

2. 6th- 10th3.

3. Graduate

4 Professional

F. Marital status :

1. Married

2.Single women

3. Widow

G. Pre/extramarital status:

1. Absent 2.present

H. Husband with extra marital contact: 1 Absent

2 Present

3 Unknown

4 Notapplicable

I. Involvement in prostitution 1.No 2.Yes

J. Contraception:-

1. Sterilization

2.Barrier

3.IUCD

4. Nil

K. Obestretic history :

1. Normal delivery

2.LSCS

3.Abortion 4.nil

L. Symptoms in partner:

1 Unknown

2 .Urethritis

3 .Dysuria

4 .Balanitis

5 .Pruritus

6 .Others

7.NIL

M. Past history PID /infertility/PVD :

1.PID

2.infertility

3.veneral disease

4.absent

N. Treatment received in past 3 weeks: 1.No 2.Yes

O. Substance abuse: 1.No 2.Yes

P. Age at onset:-

Q. Duration of vaginal discharge:-

R. Relation to menstruation: 1. No 2.yes

S. Other symptoms

1. Vulval itching 6.None

2. Dysuria 7.Ulcer

3. Lower abdominal pain 8. Growth/swelling

4.Dyspareunia

5. Post coital bleeding

[P,Q ,R,S is not applicable in asymptomatic group]

AD. Whiff test: 1 negative 2 positive

AE. Wet mount : 1 negative 2 TV 3 yeast cells 4 clue cells

AF. KOH mount: 1 negative 2 budding yeast cells

AG. Grams stain:

1 clue cells

2 Gram positive rods

3 Epithelial cells

4 Pus cells

5 Yeast cells

6 TV

AH. Pap smear:

1 Normal 2. TV . 3. HGSIL 4. SCC 5. AGNOS 6. ASCUS

7. Adenocarcinoma

AI. Trichomonas culture :

AI. 2nd & 3rd day present absent

AJ. 5th day present absent

AK. 7th day present absent

AL. HIV 1. NonReactive 2 Reactive

AM. VDRL 1. Negative 2. positive

AN. Coexistent STI: 1.No 2.Yes

AO. Final diagnosis

TV: Trichomonas vaginalis

BV: Bacterial vaginalis

MPC: Mucopurulent Cervicitis

CAN: Candidiasis

HERPES: Herpes Genitalis

HIV: Human Immunodeficiency Virus

BC: Bartholin's Cyst

LC: Lymphangioma Circumscriptum

HEP-B: Hepatitis B

Turnitin - Opera

File Edit View Bookmarks Tools Help

Open Save Print Find Home Tile Cascade

Anupama .mp 20104204 M.D. Dermatology, Venerology & Leprosy | User Info | Messages | Student | English | What's New | Help | Logout

turnitin

Class PortfolioPeer ReviewMy GradesDiscussionCalendar

NOW VIEWING: HOME > TNMGRMU APRIL 2013 EXAMINATIONS

Welcome to your new class homepage! From the class homepage you can see all your assignments for your class, view additional assignment information, submit your work, and access feedback for your papers.

Hover on any item in the class homepage for more information.

Class Homepage

This is your class homepage. To submit to an assignment click on the "Submit" button to the right of the assignment name. If the Submit button is grayed out, no submissions can be made to the assignment. If resubmissions are allowed the submit button will read "Resubmit" after you make your first submission to the assignment. To view the paper you have submitted, click the "View" button. Once the assignment's post date has passed, you will also be able to view the feedback left on your paper by clicking the "View" button.

Assignment Inbox: TNMGRMU APRIL 2013 EXAMINATIONS

| | Info | Dates | Similarity | |
|---------|------|----------------------------------------------------------------------------------|-----------------|-------------------------------------------------|
| Medical | | Start 21-Nov-2012 11:24AM Due 31-Dec-2012 11:59PM Post 07-Jan-2013 12:00AM | 18% <div></div> | <div>Resubmit</div> <div>View</div> <div></div> |

Web www.turnitin.com/s_class_portfolio.asp

Search with Google

00:47
21-12-2012

Turnitin Document Viewer - Opera

File Edit View Bookmarks Tools Help

Open Save Print Find Home Tile Cascade

www.turnitin.com

TNMGRMU APRIL 2013 EXAMI... Medical - DUE 31-Dec-2012 What's...

Originality GradeMark PeerMark

Comparative study of Trichomonas vaginalis infection in symptomatic and

BY ANUPAMA .MP 20104204 M.D. DERMATOLOGY, VENEROLOGY & LEPROSY

turnitin 18% --

SIMILAR OUT OF 0

INTRODUCTION

Trichomoniasis also known as trich, is caused by pathogenic protozoan Trichomonas vaginalis (T.vaginalis), which is the most common non-viral sexually transmitted infection (STI).

Trichomoniasis accounts for more than half of all curable sexually transmitted infections worldwide. It causes approximately 180 million infections worldwide annually. Many infected persons remain asymptomatic, when symptomatic, it presents with vaginitis, cervicitis, PID and infertility in women and non-gonococcal urethritis in men.

Match Overview

| | | |
|---|--------------------------------------|----|
| 1 | M Domeika. Publication | 4% |
| 2 | www.ncbi.nlm.nih.gov Internet source | 3% |
| 3 | sti.bmj.com Internet source | 1% |
| 4 | Submitted to Student paper | 1% |
| 5 | www.cdc.gov Internet source | 1% |
| 6 | Victoria J Johnston. Publication | 1% |
| 7 | Donald E. Burgess. " | |

PAGE: 1 OF

Text-Only Report

08:29 24-12-2012



Your digital receipt

This receipt acknowledges that Turnitin received your paper. Below you will find the receipt information regarding your submission.

| | |
|------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Paper ID | 290777467 |
| Paper title | Comparative study of Trichomonas vaginalis infection in symptomatic and asymptomatic female patients attending STD outpatient department diagnosed by wet mount and culture method" |
| Assignment title | Medical |
| Author | Anupama .mp 20104204 M.D. Dermatology, Venerology & Leprosy |
| E-mail | dranupama.mp@gmail.com |
| Submission time | 20-Dec-2012 02:30AM |
| Total words | 11539 |

First 100 words of your submission

INTRODUCTION Trichomoniasis also known as trich, is caused by pathogenic protozoan Trichomonas vaginalis (T.vaginalis), which is the most common non- viral sexually transmitted infection (STI). Trichomoniasis accounts for more than half of all curable sexually transmitted infections worldwide 1 . It causes approximately 180 million infections worldwide annually. Many infected persons remain asymptomatic, when symptomatic, it presents with vaginitis, cervicitis, PID and infertility in women and non-gonococcal urethritis in men. Women infected during pregnancy are predisposed to adverse pregnancy outcomes like premature rupture of membrane, premature labour and low birth weight infants. 2...